

COMPACT HI-FI COMPONENT SYSTEM

RD-K501USB

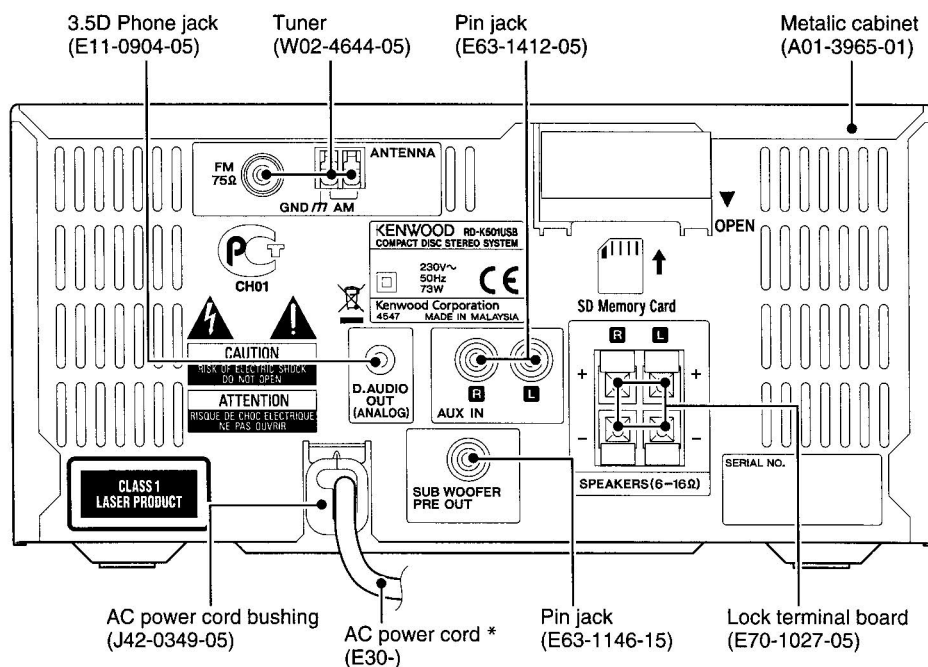
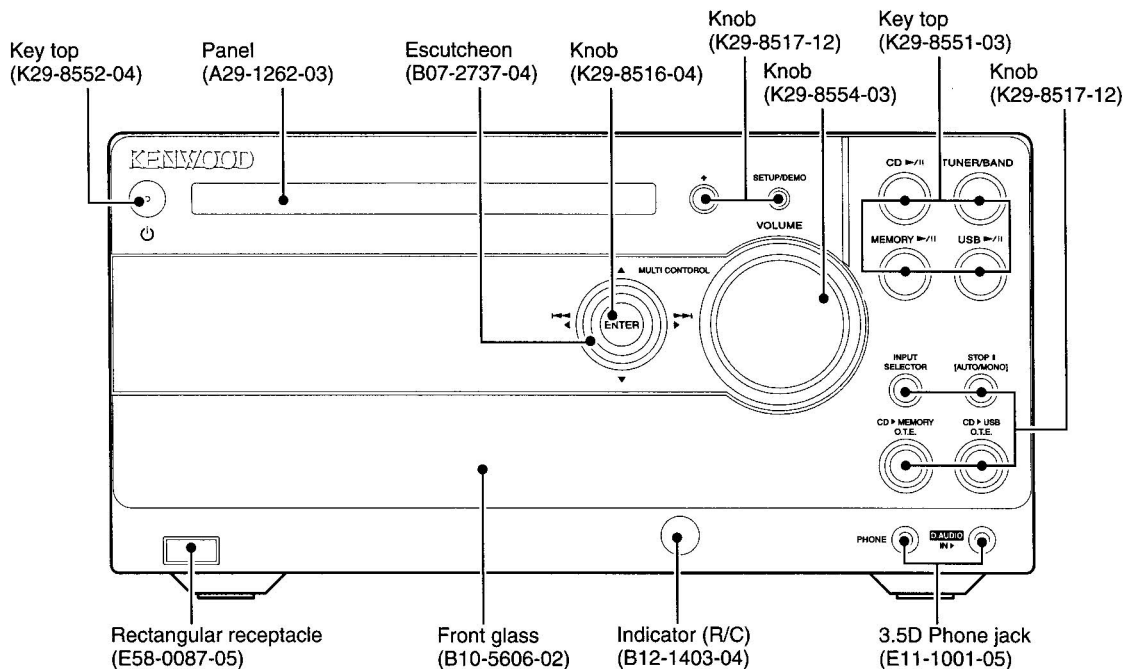
SERVICE MANUAL

(K-501USB)

KENWOOD

Kenwood Corporation

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B51-5993-00 (K/K) 219



This product uses Lead Free solder.



* Refer to parts list on page 33.

This product complies with the **RoHS** directive for the European market.

In compliance with Federal Regulations, following are reproduction of labels on, or inside the product relating to laser product safety.

KENWOOD Corp. certifies this equipment conforms to DHHS Regulations No.21 CFR 1040. 10, Chapter 1, subchapter J.

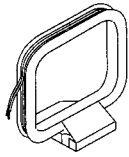
**DANGER : Laser radiation when open and interlock defeated.
AVOID DIRECT EXPOSURE TO BEAM.**

RD-K501USB

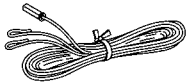
ACCESSORIES / CAUTIONS / DISASSEMBLY FOR REPAIR

ACCESSORIES

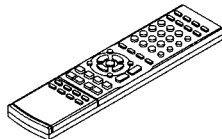
AM loop antenna (x 1)
(T90-0893-05)




FM indoor antenna (x 1)
(T90-0877-05)



Remote control unit (x 1)
(A70-1715-05)



Remote control batteries
(LR03(AAA)x 2)



SYSTEM	RECEIVER	SPEAKER
K-501USB	RD-K501USB	LS-K501

CAUTIONS


The marking of products using lasers

CLASS 1
LASER PRODUCT

The marking this product has been classified as Class 1. It means that there is no danger of hazardous radiation outside the product.
Location: Back panel

Information on Disposal of Old Electrical and Electronic Equipment (applicable for EU countries that have adopted separate waste collection systems)

Products with the symbol (crossed-out wheeled bin) cannot be disposed as household waste. Old electrical and electronic equipment should be recycled at a facility capable of handling these items and their waste byproducts. Contact your local authority for details in locating a recycle facility nearest to you. Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.



Recordable and Non-Recordable Sources

Recording Source \ Destination	USB audio player	Memory card	Kenwood digital audio played connected to D.AUDIO OUT jack
USB audio player	—	—	○
Memory card	◎※1	—	○
CD	◎	◎	○
Kenwood digital audio played connected to D.AUDIO IN	—	○	—
Radio	—	○	○
External component (connected to AUX)	—	○	○

◎ : Digital recording possible ○ : Analog recording in normal recording speed only x: Not possible recording
※1 Recording of music from the memory card to the USB audio player has the same effect as moving the music files from the former to the latter.

Memory Backup

The setups in the system are backed up for about a day even after the power cord has been unplugged from the power outlet. The backed-up setups are as follows.

- Input selection

● Volume setting

● Balance setting

● Input level setting

● D-BASS, MANUAL EQ and SPRM function settings

● Timer settings

● DIMMER setting

● A.P.S. (Auto Power Save) setting
- Tuner setups

● Preset stations

● Tuning mode (Auto/manual)

● Receiving band

● Receiving frequency
- Recording setups

● Record mode

● Recording speed

● Auto marking setting

● TEXT COPY setting




● Recording level setting

● Track mark setting

Caution for Transport or Movement

- Before transporting or moving the system, prepare it as described below.
- Disconnect the USB audio player and take out the memory card and CD.
- ② Press the play/pause keys for the memory card and CD and confirm that message "NO CARD" or "NO DISC" is displayed
- ③ Wait a while, and then turn the system OFF.
- ④ If an external component is connected, confirm that it is turned OFF and then unplug the connection cable.

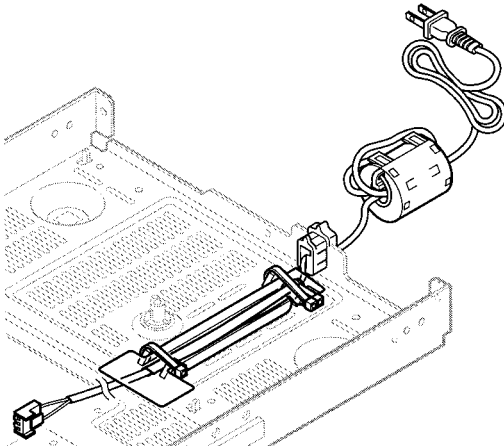
Resetting the Microcomputer

Symptom	Remedy
The microcomputer malfunctions (resulting in inoperability of the system, erroneous display, etc.).	<div>● The microcomputer may malfunction due to unplugged and plugging of a cable while the system is ON or to an extraneous cause. In this case, reset the microcomputer with the following steps.</div> <div><div>1 </div><div>2 </div><div>3 </div></div> <div>When the microcomputer is reset, the message shown on the left is displayed.</div> <div>* Resetting the microcomputer results in erasing the setups of the system and returns it to the factory-shipped condition.</div>

DISASSEMBLY FOR REPAIR

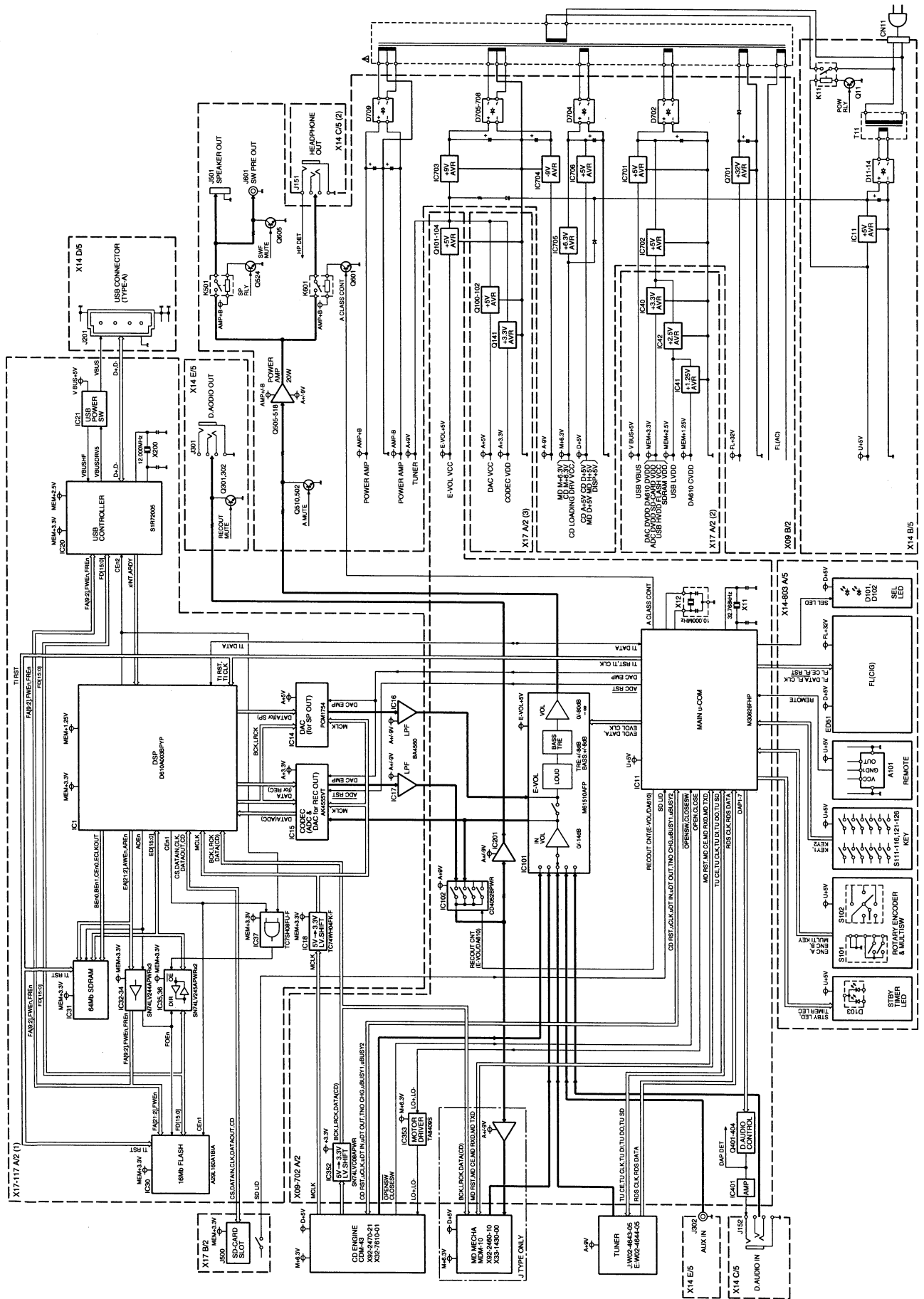
How to Replace Power Supply Cord

- Arrange the power cord on the chassis and put the insulating board (F20-3633-13) on it.
- Insert the wire band (J61-0307-05) to the hole (backwards) of the insulating board and fix it with the power cord to the hook on the chassis.
- Moreover band and fix the power cord and the insulating board with a wire band to hook on the chassis.
- Also band and fix the power cord and the other side of insulating board with a wire band to hook (frontward) on the chassis.



RD-K501USB

BLOCK DIAGRAM



RD-K501USB

CIRCUIT DESCRIPTION

1. MICROPROCESSOR (X09:IC11;M30626FHP1BHA)

PIN #	PORT NAME	I/O	DESCRIPTIONS
1	FL_CLK	OUT	Clock for FL driver.
2	FL_DATA	OUT	Data for FL driver.
3	ENC_B	IN	Encode input for volume B
4	ENC_A	IN	Encode input for volume B
5	STANDBY LED	OUT	Control for STANDBY's led. H=ON/L=OFF
6	TIMER LED	OUT	Control for timer's led. H=ON/L=OFF
7	SEL_LED	OUT	Control for selector's led. H=ON/L=OFF
8	BYTE	IN	Switch for 8/16 bits. L=16Bit/H=8Bit
9	CNVss		GND. CNVss port when writing data to flash-rom.
10	XCIN	IN	Crystal oscillator port for timer. (32.768kHz)
11	XCOUT	OUT	Crystal oscillator port for timer. (32.768kHz)
12	RESET	IN	Input port for microprocessor reset. L=RESET
13	XOUT	OUT	Crystal oscillator port for main clock. (10MHz)
14	Vss		GND
15	XIN	IN	Crystal oscillator port for main clock. (10MHz)
16	Vcc		Power supply. (+3.3V). (backup)
17	NC	IN	Connect to Vcc.
18	uBUSY2	IN	Busy port when reading TEXT data from CD drive. L→H=INTERRUPT
19	uBUSY1	IN	Bi-direction port when communicating from/to CD drive. L→H=INTERRUPT
20	TNO CHG	IN	Interrupt to read the change of track # on CD drive. L→H=INTERRUPT
21	CE	IN	Chip enable port when detecting backup. H=AC ON/ L=AC OFF
22	CD_RST	OUT	Reset output port for CD drive. L=RESET
23	OPEN SW	IN	CD tray open signal input. L=SW ON
24	CLOSE SW	IN	CD tray close signal input. L=SW ON
25	OPEN MOTOR	OUT	Tray open signal to motor. H=OPEN
26	CLOSE MOTOR	OUT	Tray close signal to motor. H=CLOSE
27	MD CE	OUT	MD control signal.
28	MD RST	OUT	MD control signal.
29	MD RXD	IN	MD control signal.
30	MD TXD	OUT	MD control signal.
31	uDT IN	OUT	Data output to CD drive.
32	uDT OUT	IN	Data input from CD drive.
33	uCLK	IN	Clock input from CD drive.
34	NC	OUT	Open.
35	TI_DATA	I/O	Data input/output port to/from DSP.
36	TI_CLK	I/O	Clock input/output port to/from DSP.
37	TI_RST	OUT	Reset signal output port to DSP.
38	ADC_RST	OUT	Reset signal output port to ADC.
39	DAC_EMP	OUT	Emphasis signal output port to DAC. H=Emphasis-on
40	SD_DET	IN	SD card door check. L=OPEN
41	NC	OUT	Non connection
42-45	NC	OUT	Non connection
46	NC	OUT	Non connection
47-49	NC	OUT	Non connection
50	AMUTE2	OUT	Audio mute signal output port. L=MUTE ON
51	RECOUT_MUTE	OUT	Recording mute signal output port. L=MUTE ON
52	DAUDIO_ATT2	OUT	Recording output level control signal for D.AUDIO. H=HIGH
53	NC	OUT	Non connection
54	RECOUT_CNT	OUT	Control signal for recoding output.
55	EVOL DATA	OUT	Data output port to electronics volume. (M61510FP)
56	EVOL CLK	OUT	Clock output port to electronics volume. (M61510FP)
57	10dB ATT	OUT	10dB ATT control signal output port. L=ATT ON
58	STANBY	OUT	Standby control signal output port.
59	SWF MUTE	OUT	Sub woofer mute signal output port. L=MUTE ON
60	SP_RLY	OUT	Speaker relay control port.

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CIRCUIT DESCRIPTION

PIN #	PORT NAME	I/O	DESCRIPTIONS
61	AMUTE	OUT	Audio mute signal output port. L=MUTE ON
62	Vcc		Power supply. (+3.3V). (backup)
63	NC	OUT	Non connection
64	Vss		GND
65	DEST1	IN	Model selector
66	DEST2	IN	Model selector
67	NC	OUT	Non connection
68	TU CE	OUT	Chip enable signal output port to PLL IC. (LC72131)
69	TU DO	IN	Data input port from PLL IC. (LC72131)
70	TU CLK	OUT	Clock signal output port to PLL IC. (LC72131)
71	TU DI	OUT	Data output port to PLL IC. (LC72132)
72	TU SD	IN	SD input port from PLL IC. (LC72131)
73	RDS DATA	IN	Data input from RDS.
74	REMOTE	IN	Remote control signal input port.
75	RDS CLK	IN	Clock input port from RDS to interrupt.
76, 77	NC	OUT	Non connection
78	POW. RLY	OUT	Power relay control signal port.
79	ROM CK	I/O	Clock output port to EEPROM. (BR24C01AF-W)
80	ROM DT	I/O	Data output port to EEPROM. (BR24C01AF-W)
81-87	DAP_1-7	OUT	Control output port for DAP.
88	HP_DET	IN	Detecting port for headphone jack. L=connected
89	AVR PROTECT1	IN	Non connection
90	AVR PROTECT2	IN	Protection detecting port.
91	DC_PROT	IN	DC protection detecting port.
92	DAP_DET	IN	DAP detecting port. H=connected
93	MULTI_KEY	IN	Input port for multi-key. (A-D)
94	KEY1	IN	Input port for key-1. (A-D)
95	KEY2	IN	Input port for key-2. (A-D)
96	Avss		GND
97	FL_RST	OUT	Reset signal output to FL driver. L=RESET
98	Vref		Standard voltage input port for analog-to digital converter.(+3.3V)
99	Avcc		Power supply port for analog-to digital converter. (+3.3V) backup.
100	FL_CE	OUT	Chip enable output port to FL driver.

Analog-to-Digital vs Operation

1.Keys

input (V)	KEY 1 Pin94(AN2)	KEY 2 Pin95(AN1)	MULTI KEY Pin93(AN3)
0.00~0.29	POWER	TUNER	ENTER
0.41~1.17	CD OPEN/CLOSE	USB PLAY/PAUSE	MULTI UP
1.27~2.05	SETUP	STOP	MULTI LEFT
2.16~2.95	CD PLAY/PAUSE	CD→USB	MULTI DOWN
3.06~3.77	MEMORY PLAY/PAUSE	CD→MEMORY	MULTI RIGHT
3.88~4.59	AUX/DAP	KEY OFF	KEY OFF
4.60~5.00	KEY OFF	KEY OFF	KEY OFF

2. DC Protection

port logic	DC_PROT (Pin91)
H	protection on
L	protection off

3. Thermal Protection

input (V)	AVR PROTECT2 Pin90(AN6)
0.00~1.40	protection on
1.41~5.0	protection off

4. D. AUDIO

input (V)	DAP_DET Pin92(AN4)
0.00~0.10	non connection
0.12~3.0	connection

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CIRCUIT DESCRIPTION

2. SOUND CONTROL IC (X09; IC101: M61510AFP)

PIN #	PORT NAME	DESCRIPTIONS
1	REF IN	Input port of the reference amplifier.
2	REF OUT	Output port of the reference amplifier.
3-7	IN 1A-1E	Input port of selector A-E (ch-1).
8	IN VOL OUT1	Output port of volume. (ch-1).
9	VSELA IN1/REC-C1	Input port of volume input selector A/output port of REC-C. (ch-1)
10	VSEL OUT1	To reduce the volume changing noise. (ch-1)
11	LOUD1	Setting port of loudness characteristic curve. (ch-1)
12,13	BI1/BO1	Setting port of Bass tone characteristic curve. (ch-1)
14,15	MI1/MO1	Setting port of Mid tone characteristic curve. (ch-1)
16	TRE1	Setting port of Treble tone characteristic curve. (ch-1)
17	VSELB OUT1	Output port of volume input B. (ch-1)
18	VOL IN1	Input port of main volume. (ch-1)
19	VOL OUT1	Output port of main volume1. (ch-1)
20	VCC	Power supply.
21	DATA	Input port of serial data.
22	CLOCK	Input port of clock signal.
23	GND	GND.
24	VOL OUT2	Output port of main volume1. (ch-2)
25	VOL IN2	Input port of main volume. (ch-2)
26	VSELB OUT2	Output port of volume input B. (ch-2)
27	TRE2	Setting port of Treble tone characteristic curve. (ch-2)
28,29	MI2/MO2	Setting port of Mid tone characteristic curve. (ch-2)
30,31	BI2/BO2	Setting port of Bass tone characteristic curve. (ch-2)
32	LOUD2	Setting port of loudness characteristic curve. (ch-2)
33	VSEL OUT2	To reduce the volume changing noise. (ch-2)
34	VSELA IN2/REC-C2	Input port of volume input selector A/output port of REC-C. (ch-2)
35	IN VOL OUT2	Output port of volume input. (ch-2).
36-40	IN 2A-2E	Input port of selector A-E (ch-2).
41	REC-B2/SUR1	Output port of REC-B. (ch-2)./Device connection port of external surround one.
42	REC-B1/SUR2	Output port of REC-B. (ch-1)./Device connection port of external surround one.

Specification of Sound Controller IC (X09; IC101: M61510AFP)

This IC controls main volume, recording level, and selector.

(a) Tone Control

Fixed

treble		bass		bass	volume input	loudness	surround	tone input
value	attenuation	value	mid attenuation	attenuation	selector B	switch		selector
+8	+8dB	+8	+8dB	0dB	tone	off	off	bypass
+6	+6dB	+6	+6dB					
+4	+4dB	+4	+4dB					
+2	+2dB	+2	+2dB					
0	0dB	0	0dB					
-2	-2dB	-2	-2dB					
-4	-4dB	-4	-4dB					
-6	-6dB	-6	-6dB					
-8	-8dB	-8	-8dB					

※ Attenuate the maximum level to 0dB if the sum of tone's value and volume value will be over 0dB.

Flat

	tone control			volume input	loudness	surround	tone input
	treble	mid	bass	selector B	switch		selector
ALL OFF	---	---	---	bypass	off	off	bypass

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CIRCUIT DESCRIPTION

(b) Master Volume

Master volume is consist of pre and post volumes and 10dB attenuation.

volume level	attenuation (dB)	pre volume (dB)	post volume (dB)	10dB Att (57Pin)
0	-80	-16	-∞	ON (Low)
1	-80	-16	-∞	
2	-79	-16	-53	
3	-75	-16	-49	
4	-71	-16	-45	
5	-67	-16	-41	
6	-63	-16	-37	
7	-59	-16	-33	
8	-55	-16	-29	
9	-51	-16	-25	
10	-48	-15	-23	
11	-45	-15	-20	
12	-42	-15	-17	
13	-39	-14	-15	
14	-36	-14	-12	
15	-34	-13	-11	
16	-32	-13	-9	
17	-30	-12	-8	
18	-28	-12	-6	
19	-26	-11	-5	
20	-24	-10	-4	
21	-22	-9	-3	
22	-20	-8	-2	
23	-18	-7	-1	
24	-17	-6	-1	
25	-16	-5	-1	
26	-15	-4	-1	
27	-14	-4	0	
28	-13	-3	0	
29	-11	-3	-8	OFF (High)
30	-10	-2	-8	
31	-9	-2	-7	
32	-8	-2	-6	
33	-7	-1	-6	
34	-6	-1	-5	
35	-5	-1	-4	
36	-4	-1	-3	
37	-3	0	-3	
38	-2	0	-2	
39	-1	0	-1	
40	0	0	0	

(c) Input volume data (D14="1",D15="1")

(1) Selector

selector	default
TUNER	-4dB
CD	0dB
MD	0dB
MEMORY/USB	0dB
AUX	-6dB (varia)
P.HDD	-6dB (varia)

(2) AUX, D.AUDIO

volume level	ATT.
+3	0dB
+2	-2dB
+1	-4dB
0	-6dB
-1	-8dB
-2	-10dB
-3	-12dB

(d) DISP IC (X17; IC1: D610A003BPYP)

. D. BASS

value	ATT.
0	-∞dB
1	-8dB
2	-6dB
3	-4dB
4	-2dB
5	0dB
6	+2dB
7	+4dB
8	+6dB
9	+8dB
10	+10dB

RD-K501USB

TEST MODE

3. Test mode

1. Display

part of upper dot: display A		
part of lower dot: display B		
part of segment: display C		

2. Operation in Test Mode

- In test mode, "demo" mode have to be in cancel.
- In test mode, remote control key and key on the unit are not available for normal operation.
- In test mode, any keys not listed in the following table are test mode operation.
- In test mode, mute does not work. But mute works when power switch is on/off.

3. TUNER Check Mode

3-1 Setting to test mode

Turn on with pressing [STOP] key.

3-2 Condition after setting to Test mode.

selector	TUNER FM
Display	All dots and segments turn on. Illumination on the front panel turns on. Cancellation of turn-on is available with pressing key on the front panel or remote control
LED	Red and amber leds on standby turns on for 250mS alternately. Other leds turn on. Cancellation of turn-on is available with pressing key on the front panel or remote control
TUNING FERQ	98.3MHz
MAIN Vol LEVEL	Set to "35".
AUX INPUT LEVEL	Set to value of initialization.
SOUND MODE	OFF
TONE CONTROL	FLAT(0)
etc.	Set to value of initialization. CD tray will be open. Supreme is OFF.

3-3 Key operation in Test Mode

key	display A	display B	display C	remarks
ENTER (cyclic)	*****"E"	DSP:*****	normal	Shows version of microprocessor and EEPROM. Shows "-" if no EEPROM Does version of DSP on part B.

3-4 Others

Shows blinking "SD LID OPEN" on part B if SD pocket door opens.

4. CD Check Mode

4-1 Setting to test mode

Turn on with pressing [CD PLAY/PAUSE] key.

4-2 Condition after setting to Test Mode.

selector	CD
Display	Display shows "CD _TEST" in dot part A and "version of microprocessor on CD" in B.
LED	Stand-by led (red) blinks for 500mS period.
MAIN Vol LEVEL	Set to "35".
AUX INPUT LEVEL	Set to value of initialization.
REC INPUT	Analog
SOUND MODE	OFF
TONE CONTROL	FLAT(0)
etc.	Set to value of initialization. CD tray will be open. Supreme is OFF.

RD-K501USB

TEST MODE

4-3 Key operation in Test Mode

key	display A	display B	display C	remarks
PLAY/PAUSE (cyclic)	normal			Normal playback and pause works.
STOP (in playback)	CD_TEST	CD U-COM ver	-	Initialization in test mode after playback stops. (Not resume mode)
STOP (in stop mode)	06 MODE 07 MODE 08 MODE 09 MODE 10 MODE	** ## ** ## ** ## ** ## ** ##	-	Shows self adjustment value ** (FG), ##(FEXP) ** (FBAL), ##(FOFS) ** (TG), ##(TEXP) ** (TBAL), ##(TOFS) ** (FMAX), ##(FMIN)
SKIP-UP/DOWN	normal			Normal skip-up and down works
SKIP-UP/DOWN (pressing 500mS period in playback mode)	normal			Pickup moves in FF mode with UP key. Pickup does in FB mode with DOWN key
ENTER (cyclic, in stop mode)	05 MODE ↔ 03MODE	-	normal	Tracking Servo will be on after self adjustment (05 MODE). Tracking Servo will be off immediately (03 MODE). Playback will start at 1 min. in the first music (pickup moves 100 mS outwards after pressing start limit switch). Tracking servo will turn on at start position of 03 MODE when changing MODE from 03 MODE to 05 MODE.
SKIP-UP/DOWN (pressing 500mS period in stop mode)	CD_TEST	PICK OUT/ PICK IN	normal	With pressing UP key, pickup moves outwards. Pickup will stop if not pressed UP key. With pressing DOWN key, pickup moves inwards. Pickup will stop if not pressed DOWN key.
Memory OTE	SD OTE F**	MD OTE T**	normal	High One Touch Edit(OTE) will start from CD to Memory in LP4 mode.
SETUP (cyclic)	REC INPUT	DIGITAL or ANALOG	normal	Switch recording input source alternately if pressed SETUP key.
NEXT	SL check ↔ QDATA_*****	normal	normal	Shows position of start limit with pressing SETUP key after playback 05 mode

4-4 Others

Shows blinking "SD LID OPEN" on part B if SD pocket door opens.

In detecting "door open ", TWIN REC does not work if O.T.E.key of memory is pressed.

5. SD Card

5-1 Setting to test mode

Turn on with pressing Memory play/pause key.

5-2 Key operation in Test Mode

key	display A	display B	display C	remarks
Memory play/pause +power on	FORMAT&INIT	normal	normal	This test mode executes SD card format and Initialization. Turn the power off mode after initialization. Shows "NO CARD" if no SD card. Unit to stop after show "SD ERROR"

6. Shipment Initialization from factory

6-1 Setting to test mode

Turn on with pressing POWER key.

6-2 Key operation in Test Mode

step	display
1. Initialize ram in main microprocessor and backup data.	-
2. Power on	Display shows "INITIALIZE" in executing. Retune to standby mode if unit has no error.
3. Mechanism initialization	Error shows on display if mechanism and/or switches.

6-3 CD Mechanism Initialization

Unit executes the same initialization as turn-on's that.

In initialization, display shows "CD ERROR" if any trouble.

7. Canceling Test Mode

If you want to write initialization value to microprocessor you have to pull out the power cord from ac outlet.

If you turn off the power switch the unit will be ended test mode without writing initialization value to microprocessor.

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ADJUSTMENT

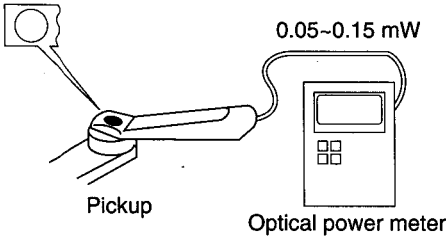
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified, the individual switches should be set as following : POWER : ON SELECTOR : CD							
1	BIAS	—	Connect a DC voltmeter to pin #1 and 2 of CN502 (L-ch) or pin #3 and 4 of CN 502 (R-ch) (X09)	VOLUME : 0	VR501 (Lch) VR502 (Rch) (X09)	10 mV	

CD check

No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
in TEST MODE TEST MODE : While pressing the [CD PLAY/PAUSE] key, turn power on.							
1	LASER POWER	—	Set the sensor section of the optical power meter on the pickup lens.	Short circuit OPEN/CLOSE SW. Press the "ENTER" key to check that the display is "03".	—	On the power from 0.05 to 0.15mw. when the diffraction grating is correctly aligned with the RF level of 0.8Vp-p or more	(a)

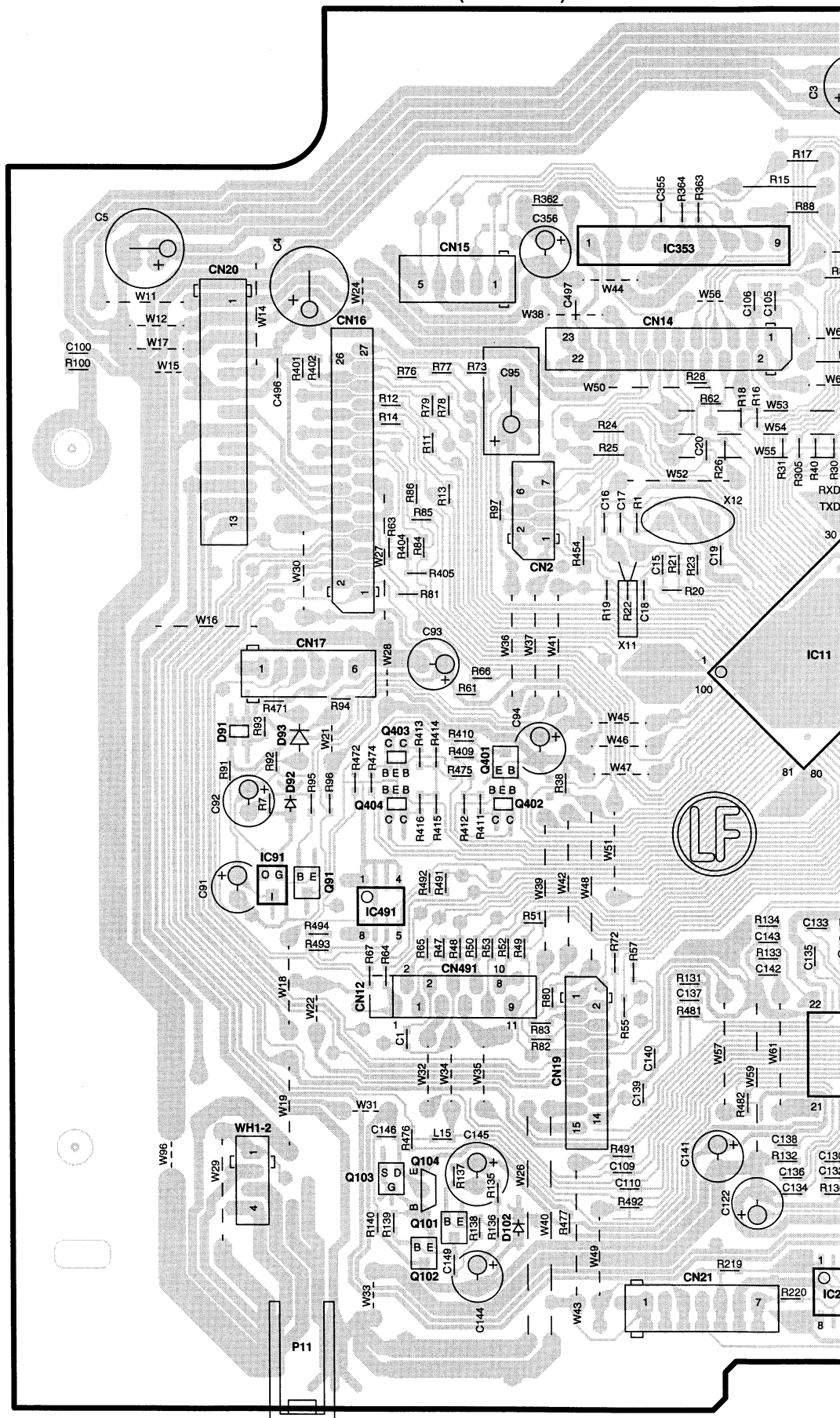
Note:
Type 4disc :SONY YEDS-18 Test Disc or equivalent. (KTD-02)
LPF : Around 47kΩ + 390pF or so.

(a) Laser Power



PC BOARD

X09-7020-00 A/2 (J75-0102-11)



Refer to the schematic diagram for the value of resistors and capacitors.

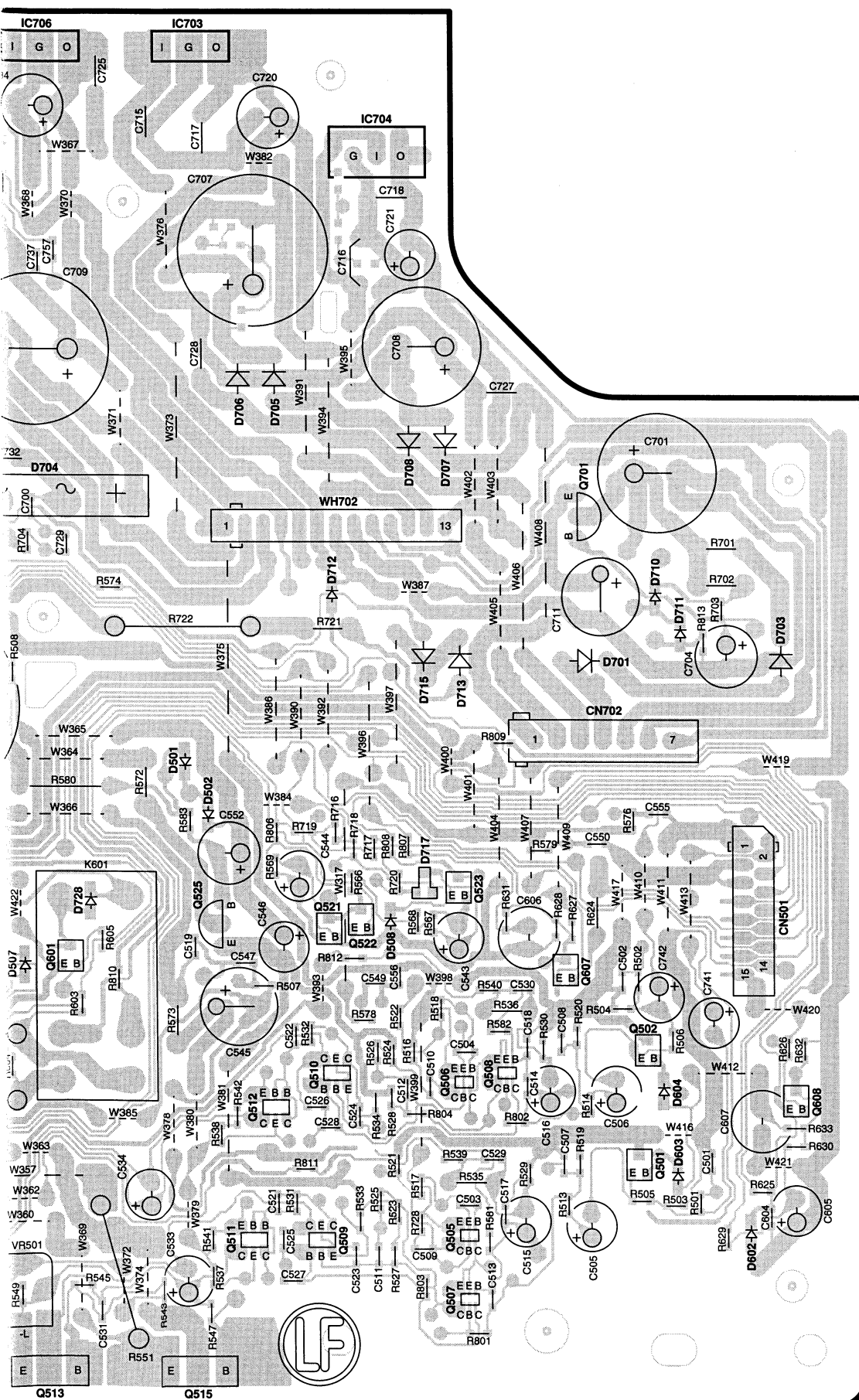
▼



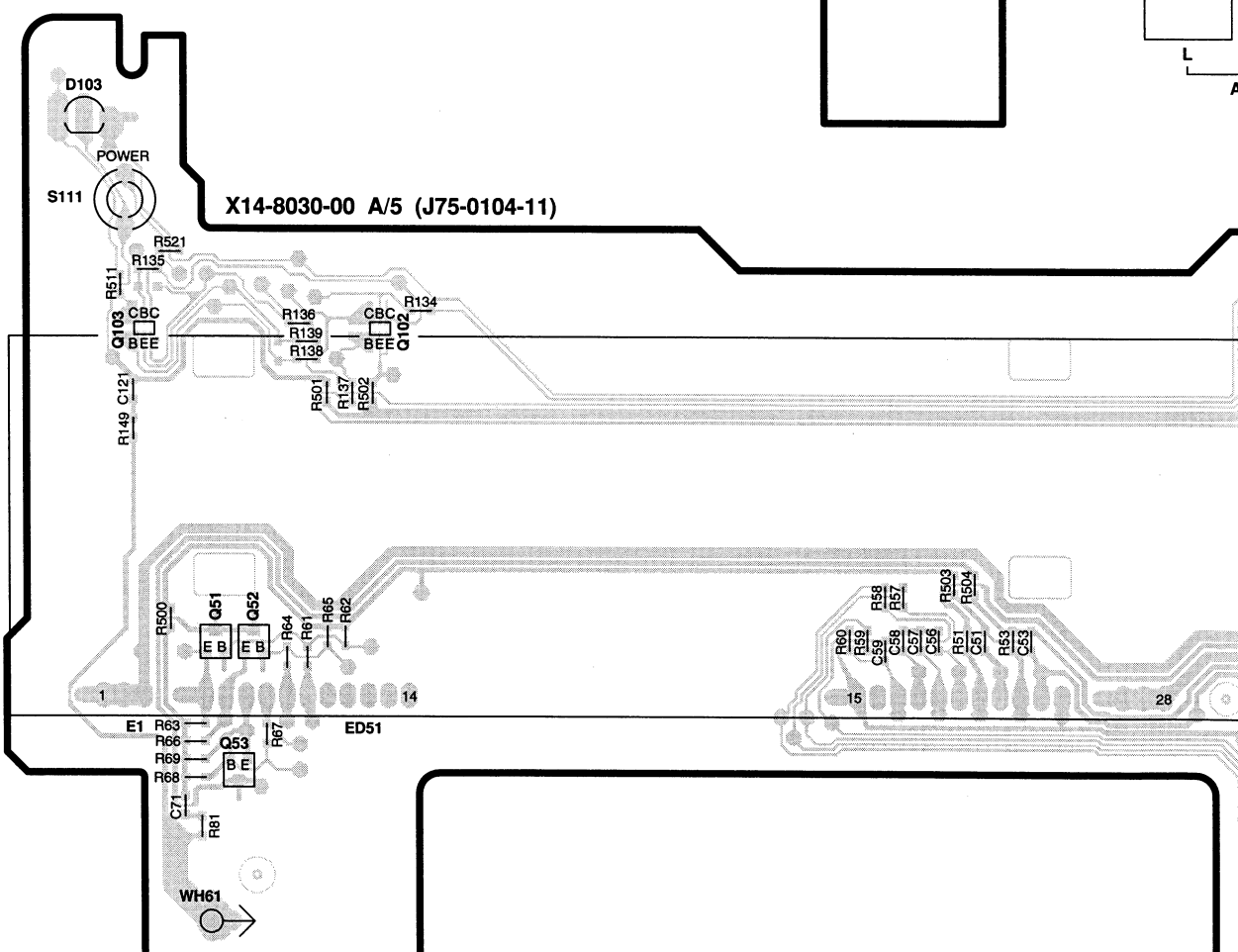
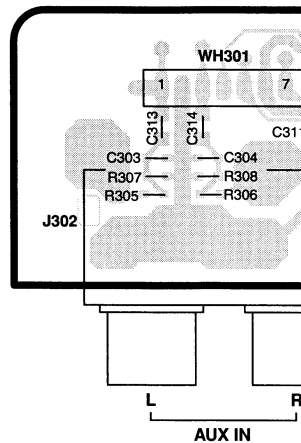
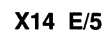
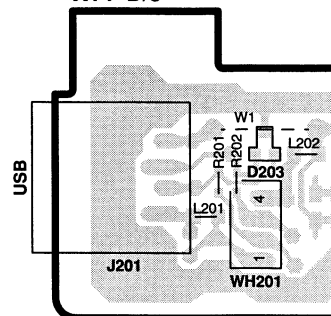
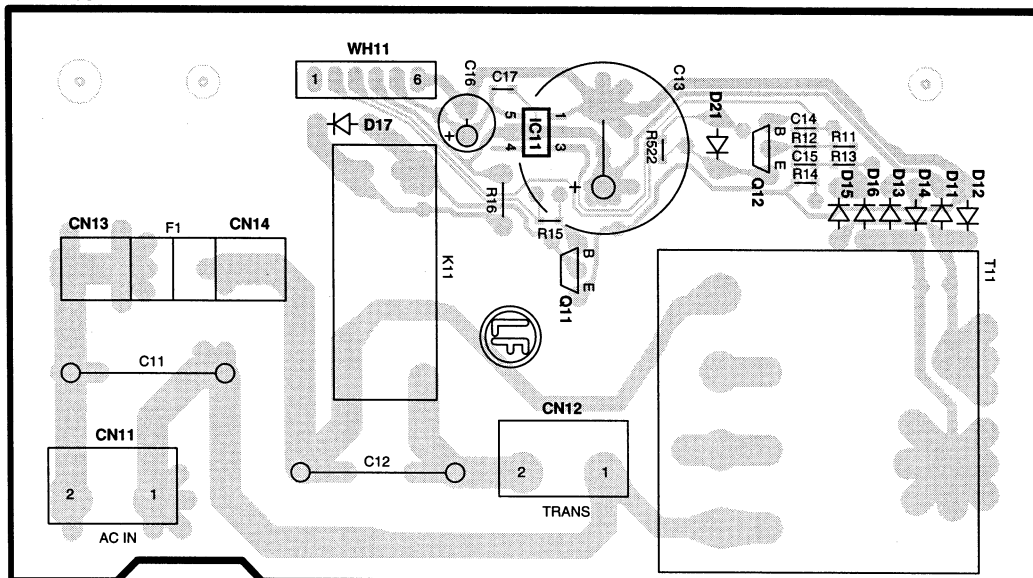
1	
2	
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7	



PC BOARD

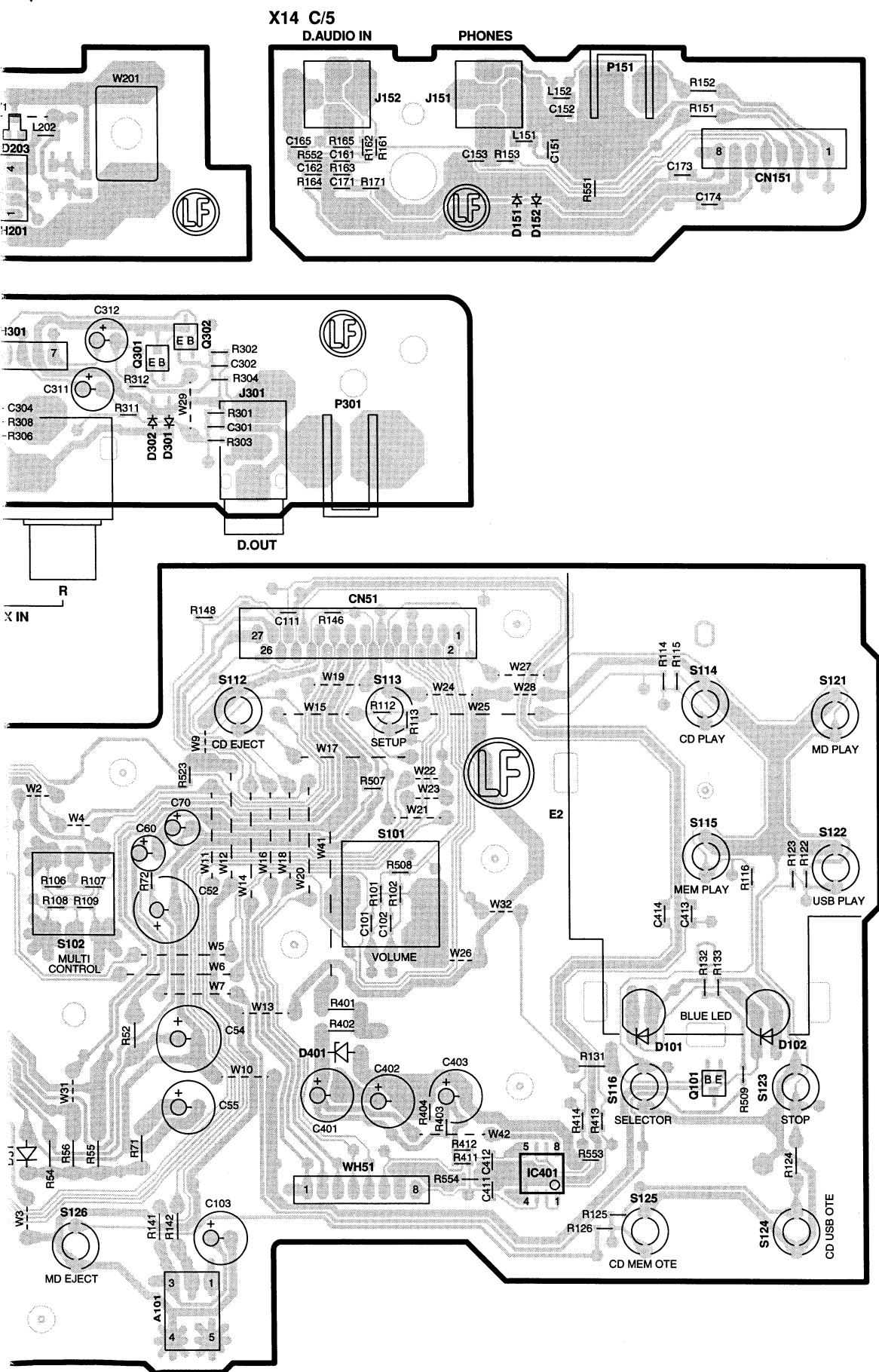


X14 B/5

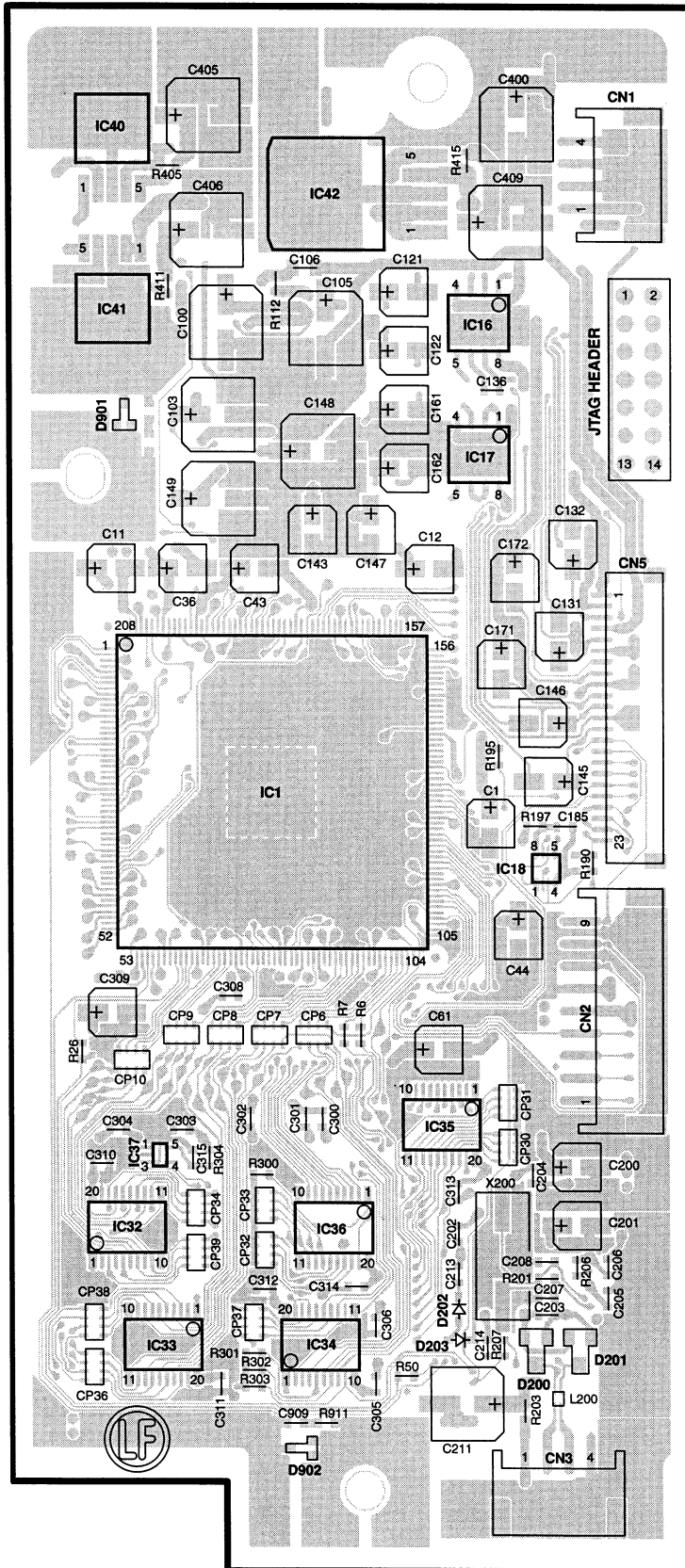
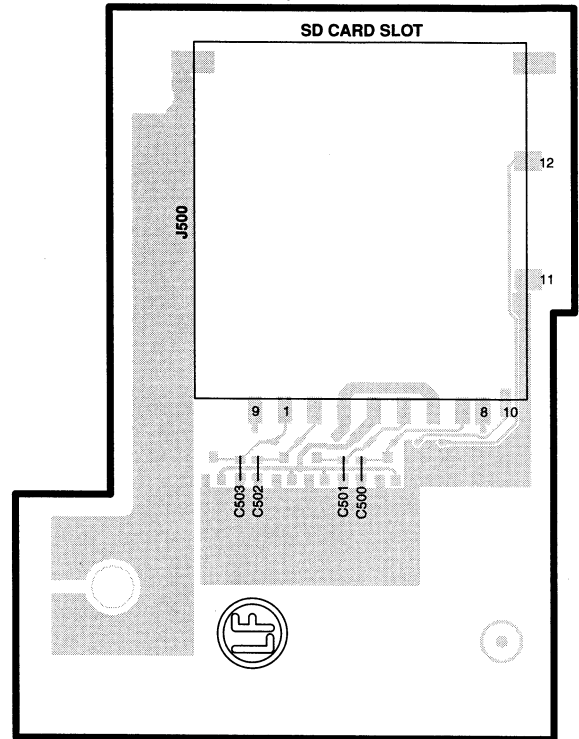


Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD



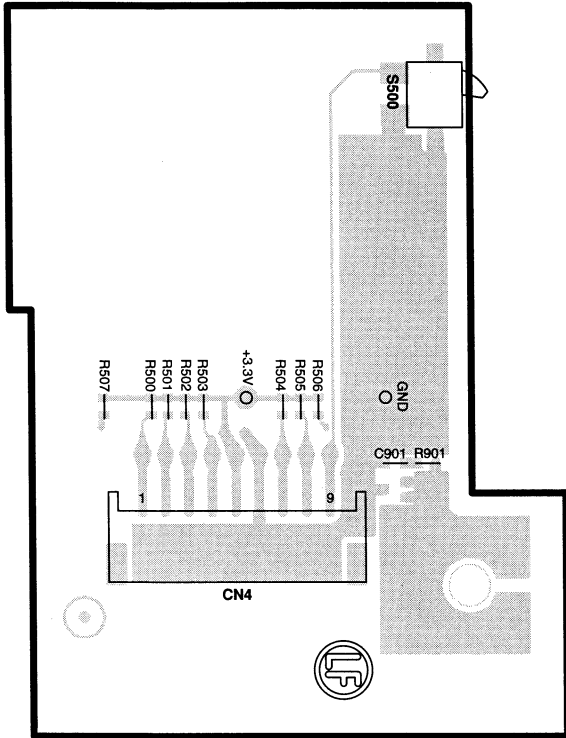
PC BOARD

X17-1170-00 A/2 (J75-0103-12) (SIDE A)

X17 B/2 (SIDE A)


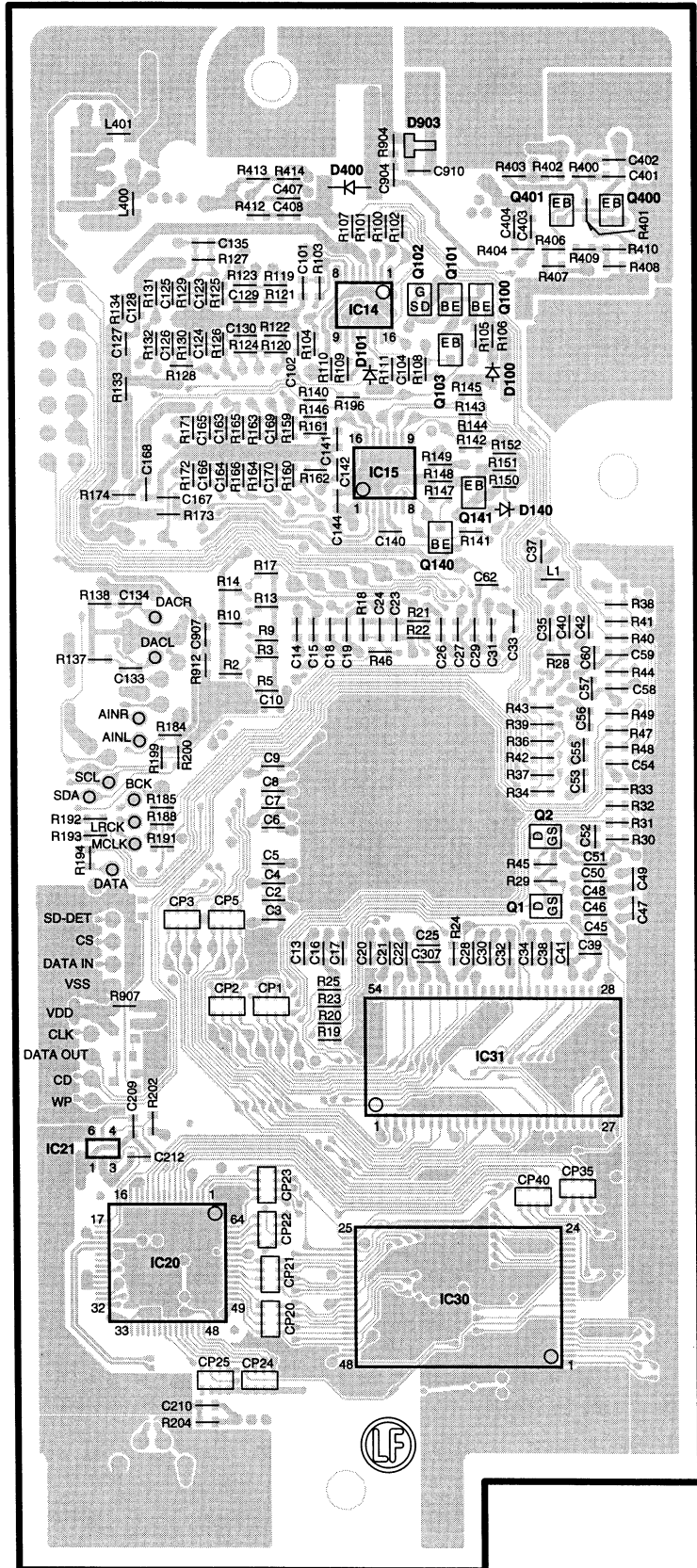
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD

X17 B/2 (SIDE B)

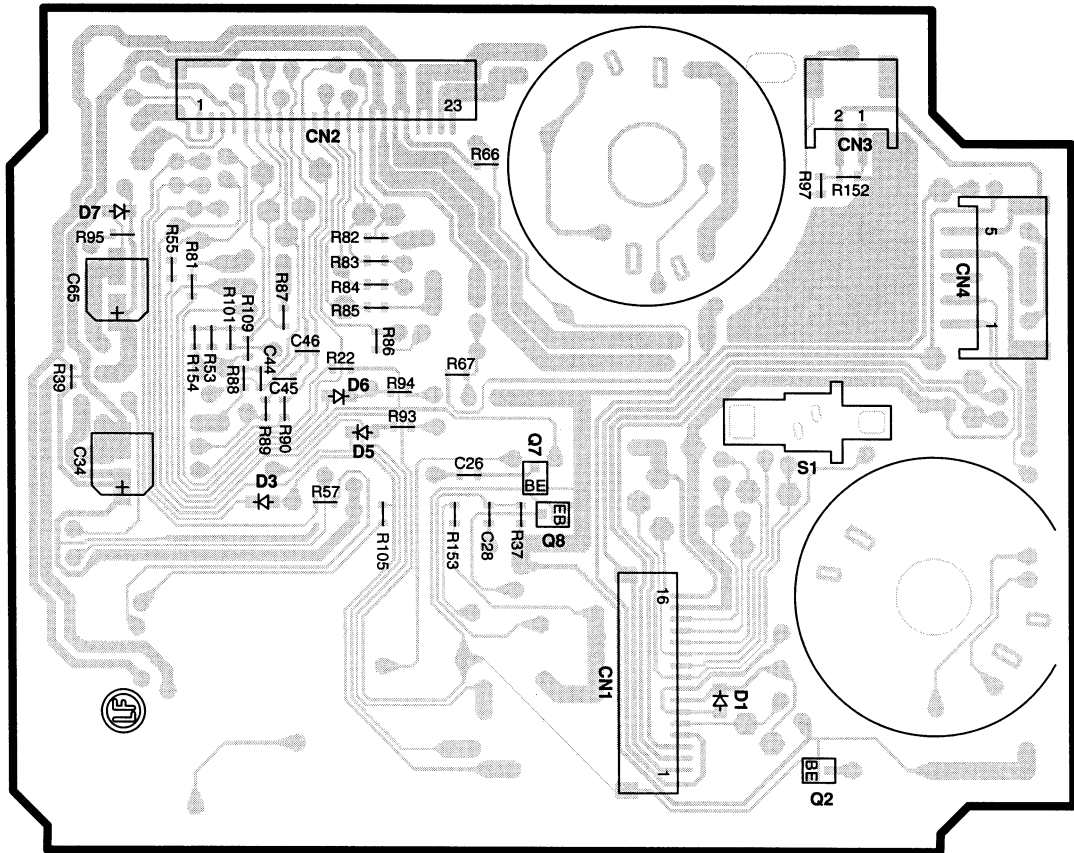


X17-1170-00 A/2 (J75-0103-12) (SIDE B)

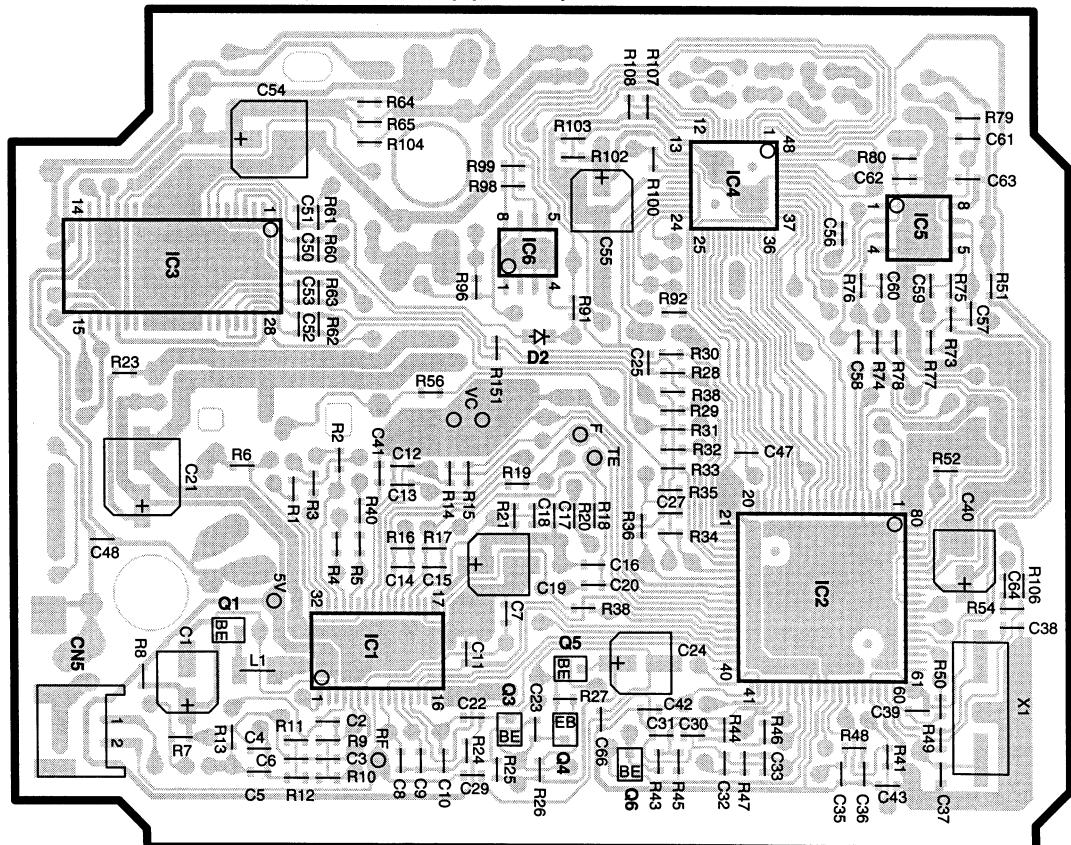


PC BOARD

X32-7610-01 (J75-0109-02) (SIDE A)



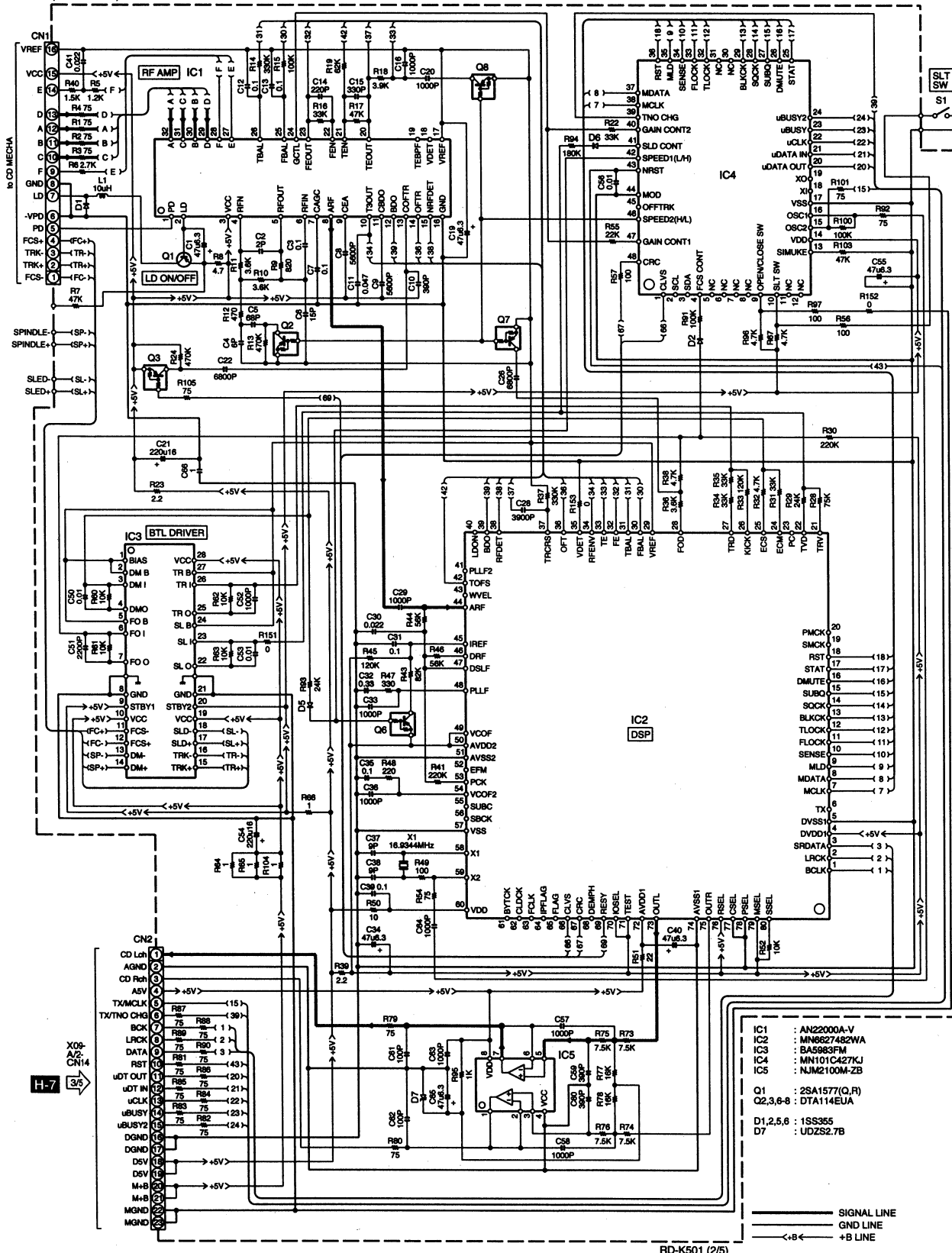
X32-7610-01 (J75-0109-02) (SIDE B)



Refer to the schematic diagram for the value of resistors and capacitors.

RD-K501USB

(X32-7610-01)

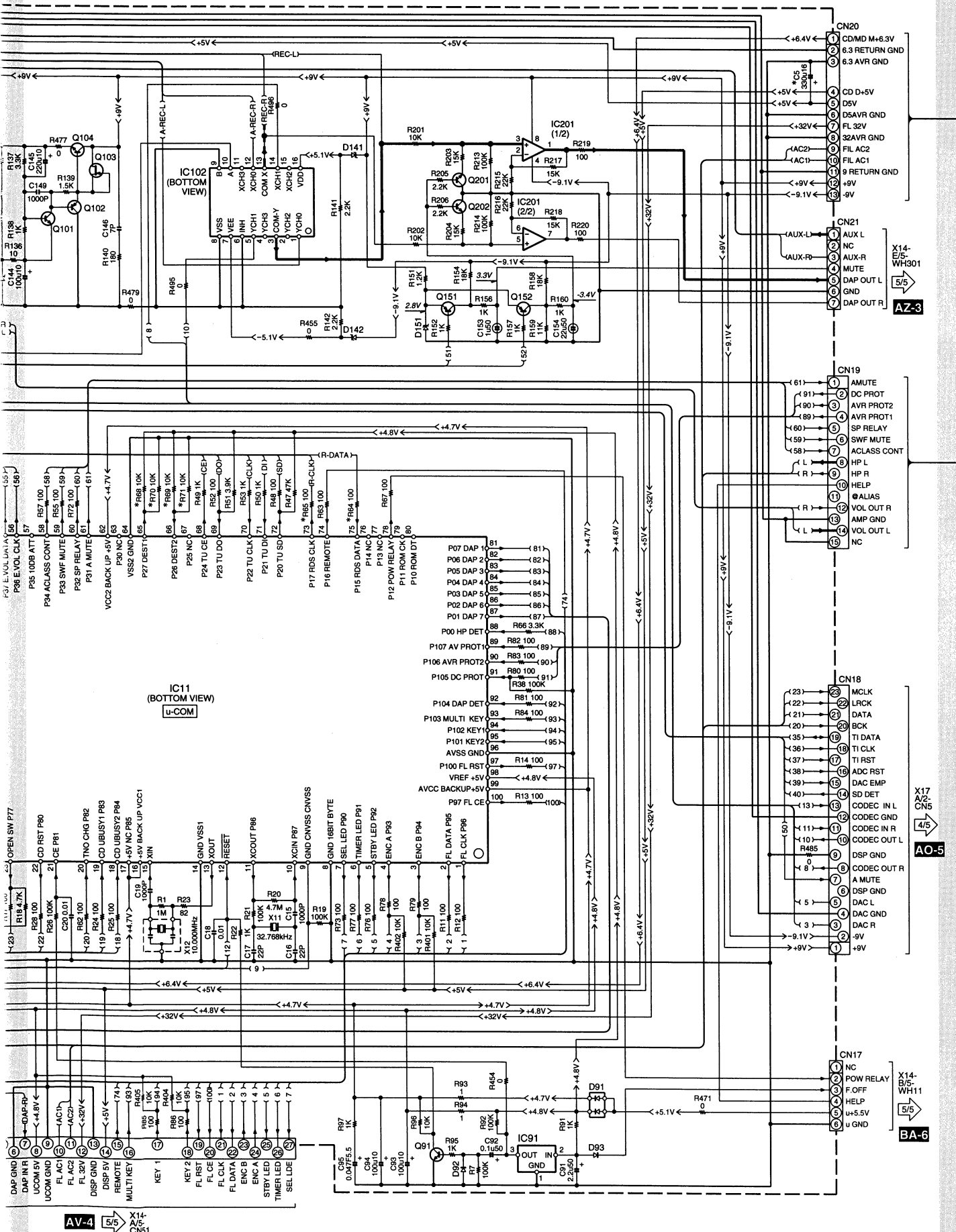


CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

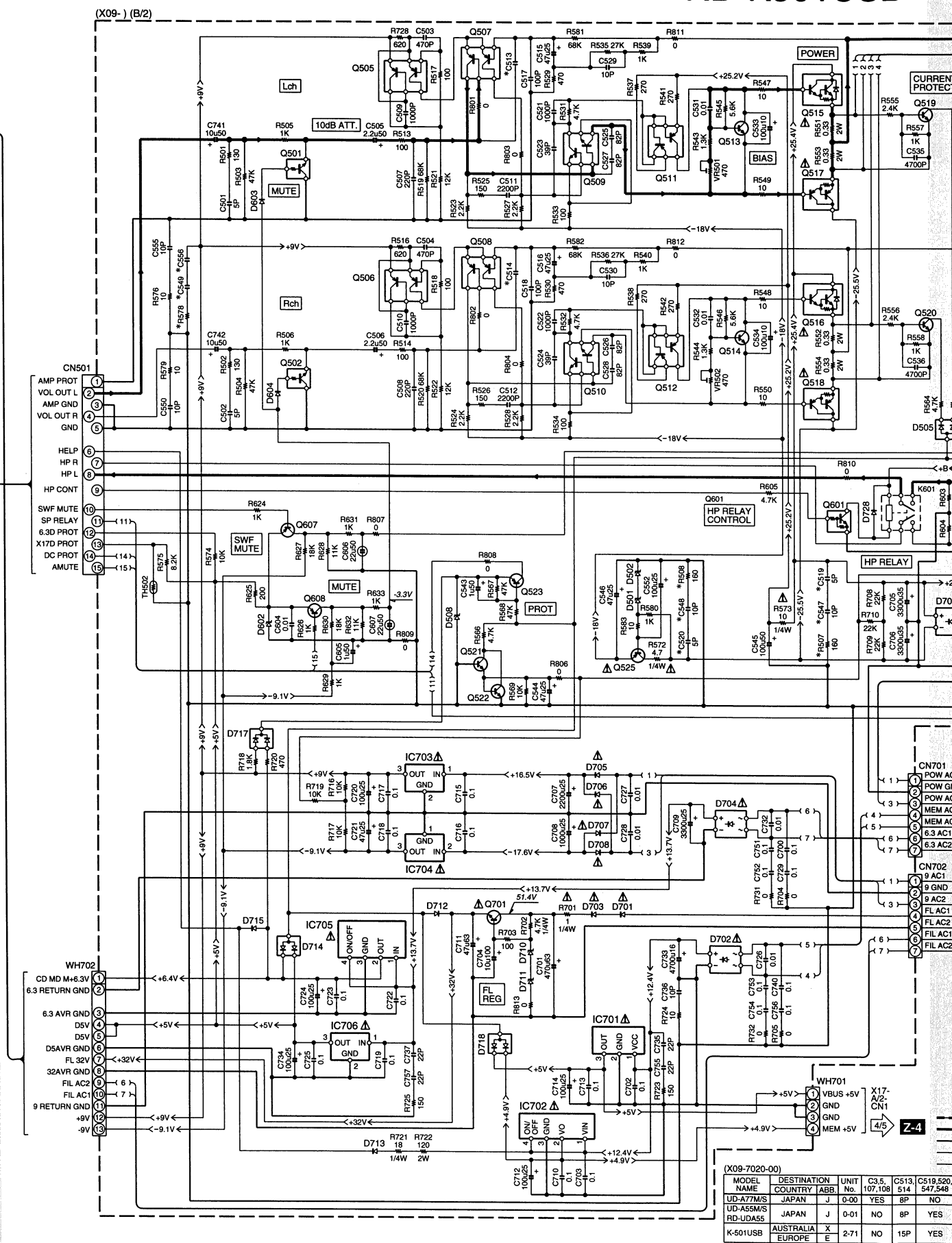
The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.



RD-K501USB

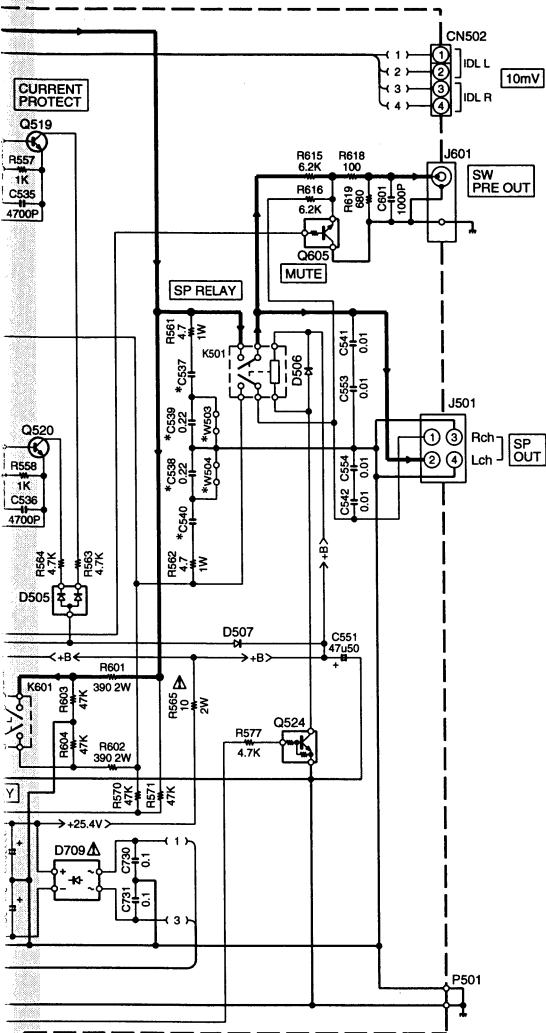


RD-K501USB



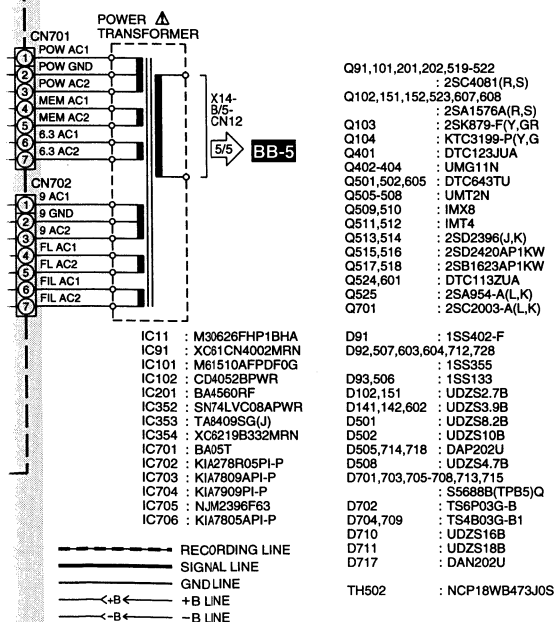
(X09-7020-00)						
MODEL NAME	DESTINATION		UNIT No.	C3.5 107.108	C513 514	C519.520 547.548
	COUNTRY	ABB.				
UD-A77M/S	JAPAN	J	0-00	YES	8P	NO
UD-A55M/S RD-UDAS5	JAPAN	J	0-01	NO	8P	YES
K-501USB	AUSTRALIA	X	2-71	NO	15P	YES
	EUROPE	F				

RD-K501USB



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

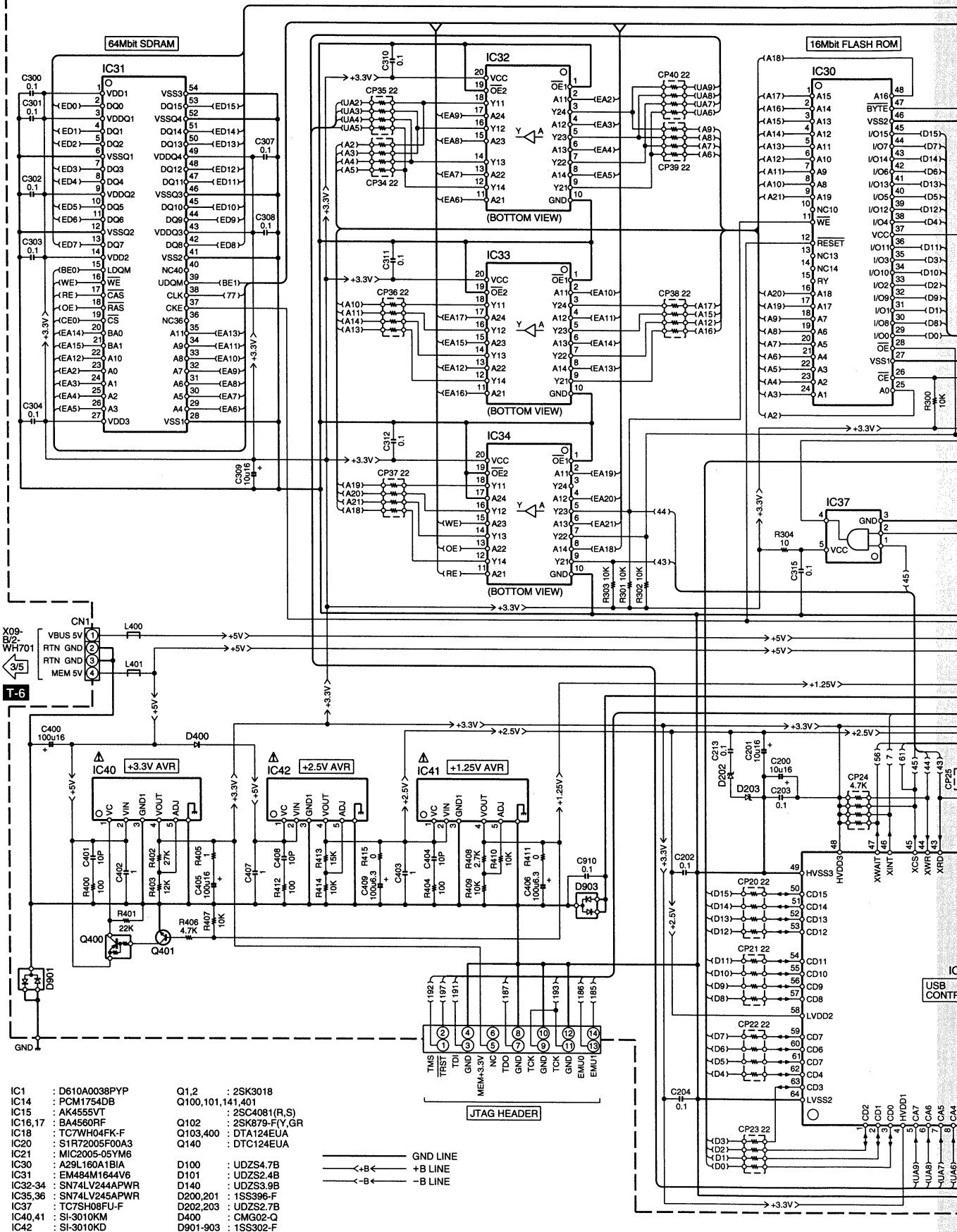


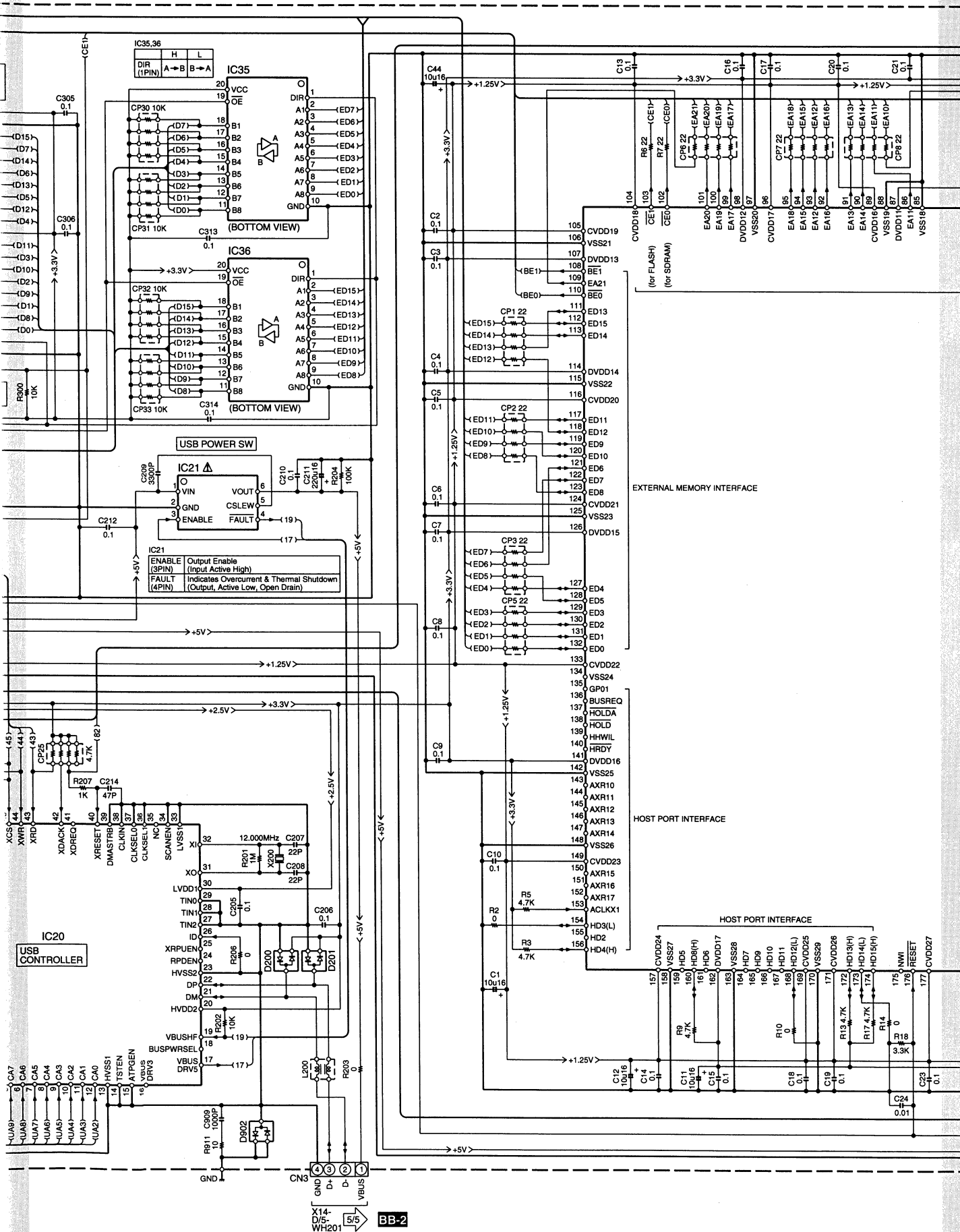
13	C519,520	C537	C538	C549	CN12	CN491	R30,31,40,69	R64,65	R68	R71	R578	W503
14	547,548	540	539	556			354,356,359	70	507,508		150	504
P	NO	0.1	NO	22P	NO	YES	YES	NO	YES	NO	150	YES
P	YES	0.1	NO	22P	NO	YES	NO	NO	YES	YES	150	YES
P	YES	0.22	YES	2200P	YES	NO	NO	YES	NO	YES	4.7	NO

RD-K501 (3/5)

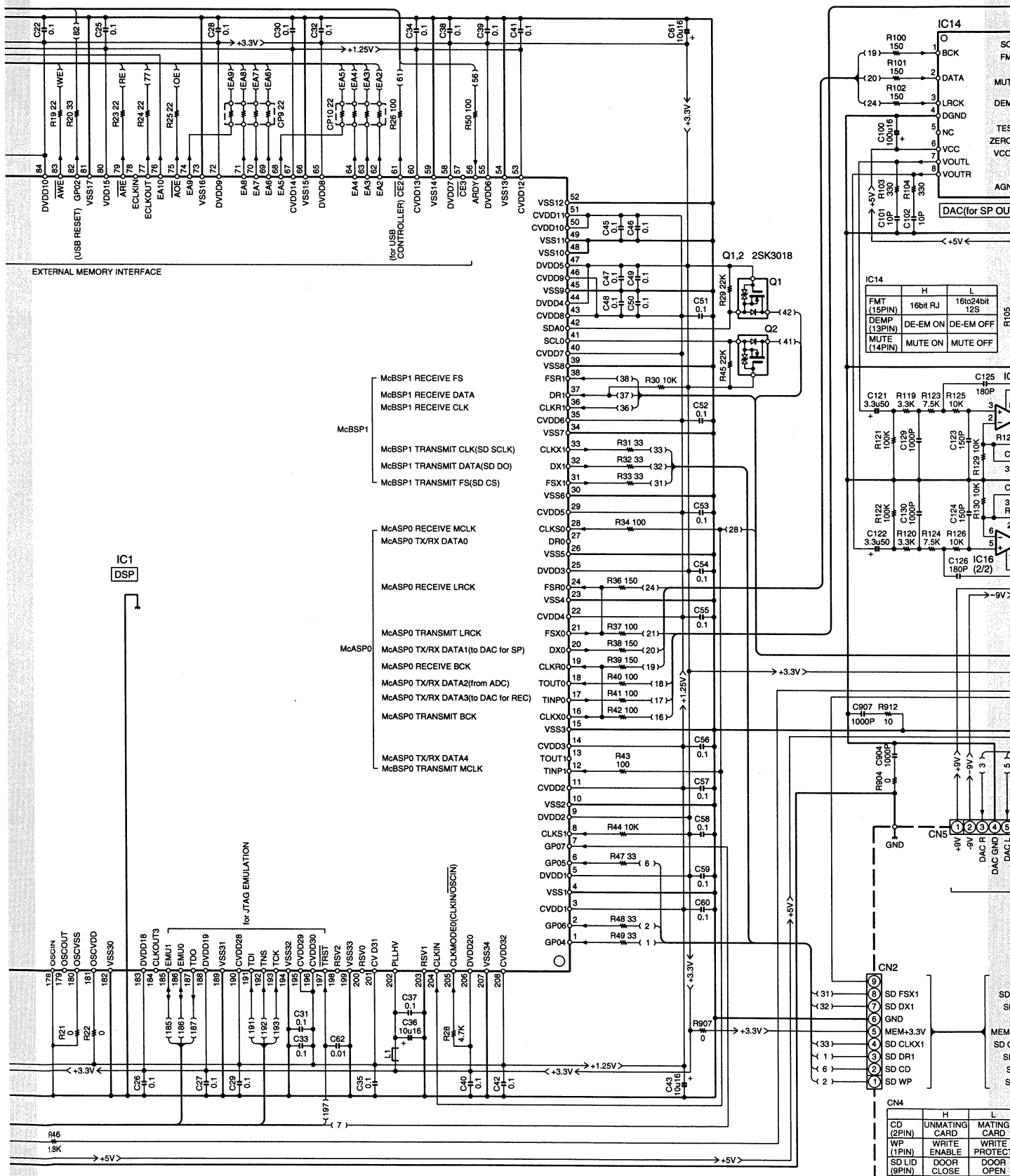
RD-K501USB

(X17-1170-00) (A/2)

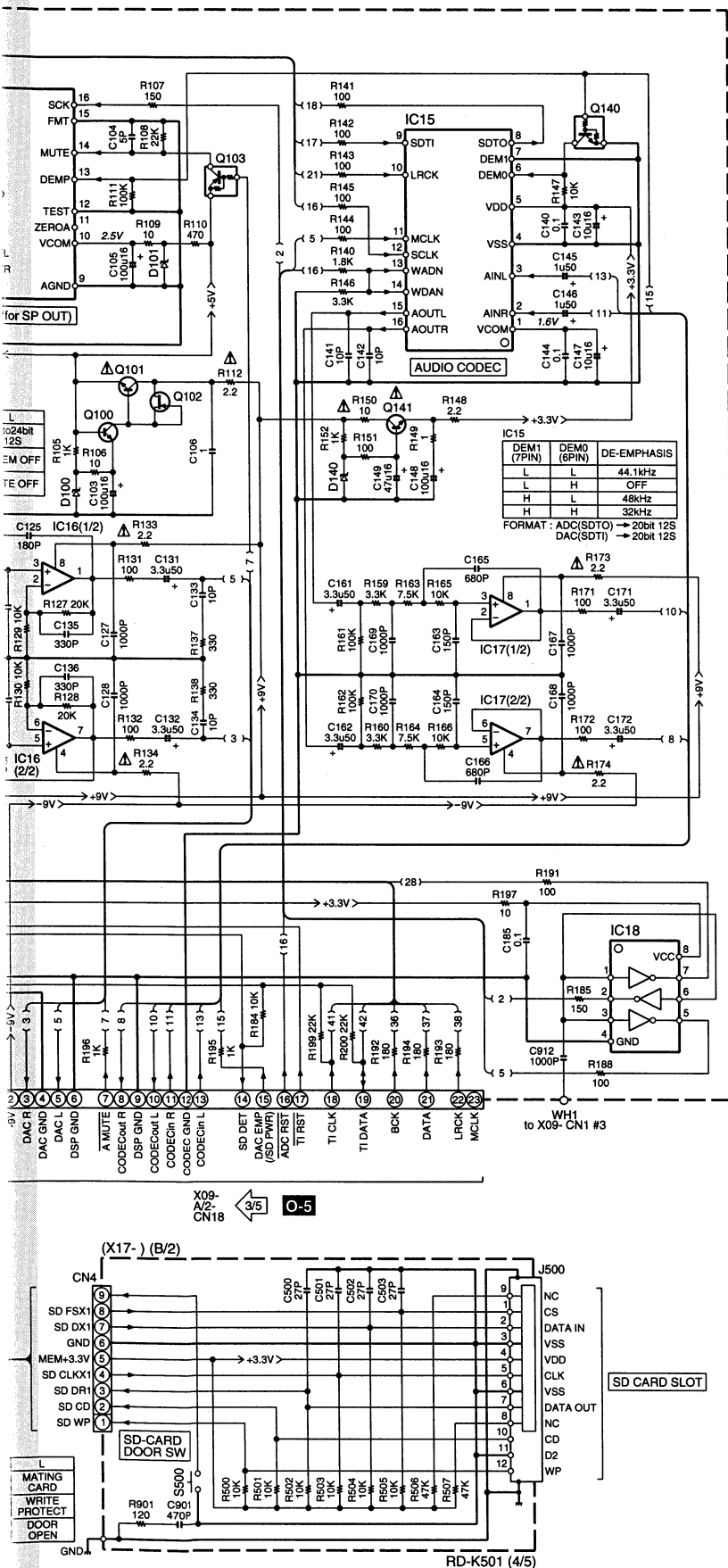




X17-1170-00 (A/2) (3/4) 27



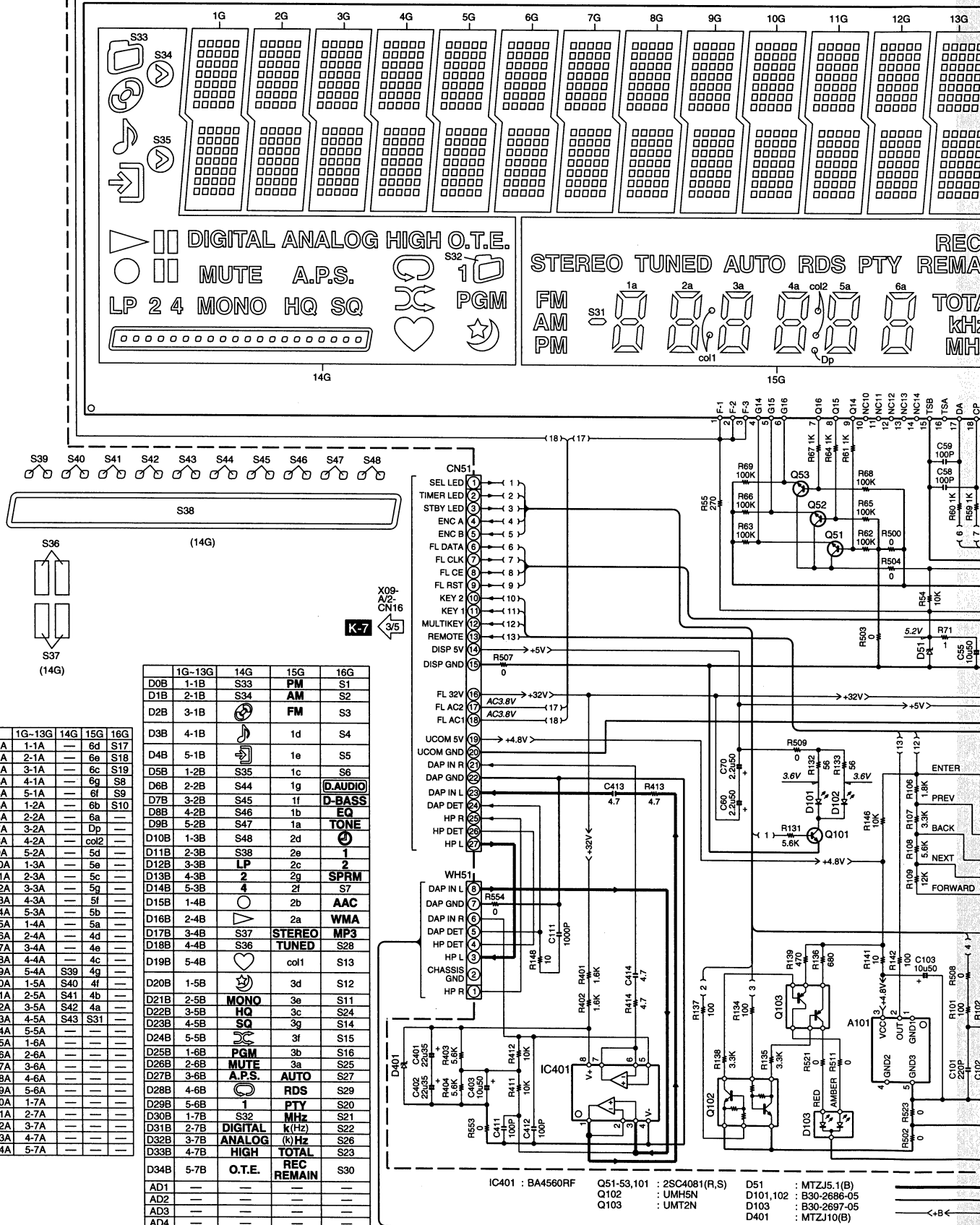
RD-K501USB



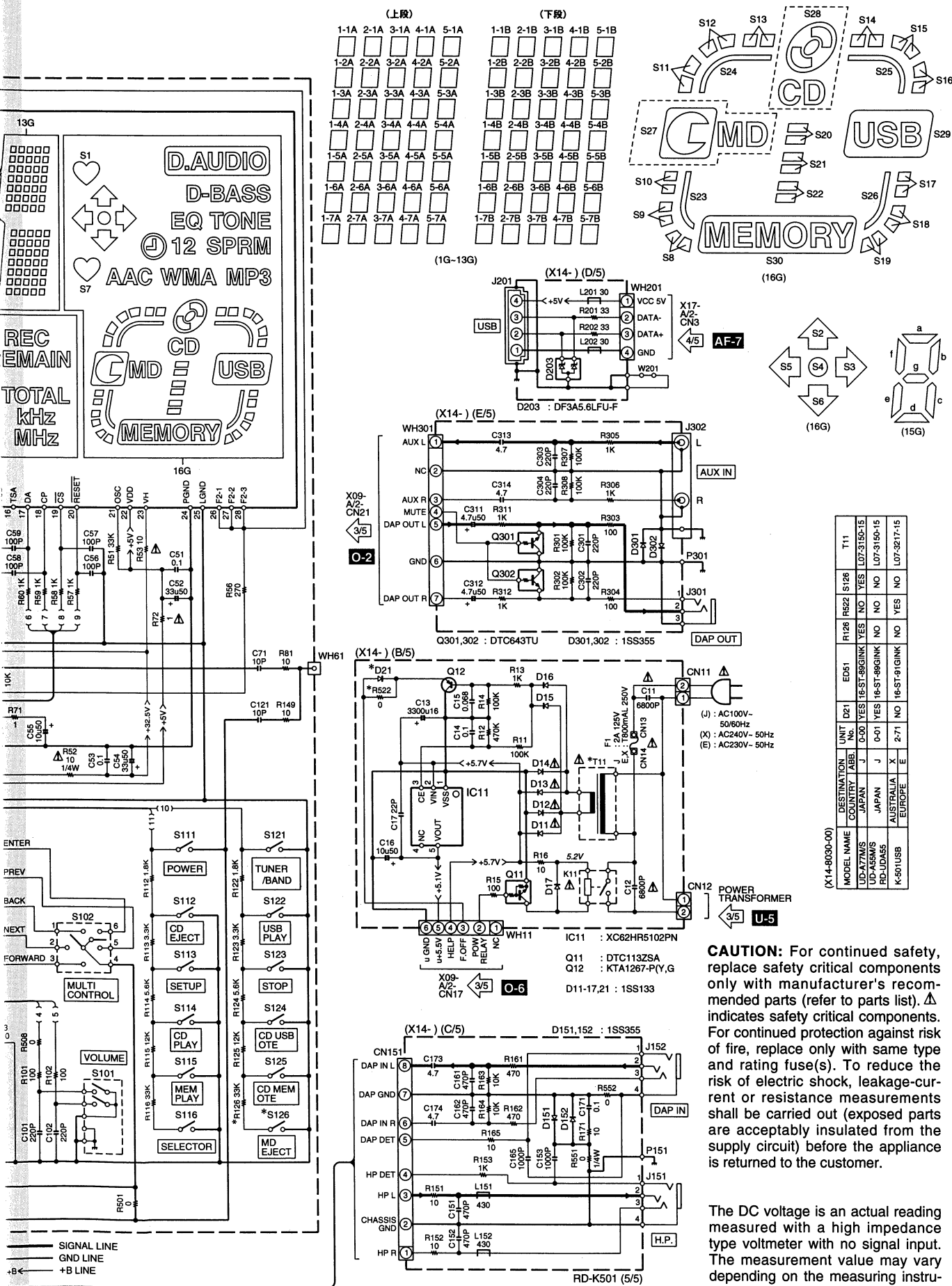
RD-K501USB

(X14-8030-00) (A/5)

*ED51



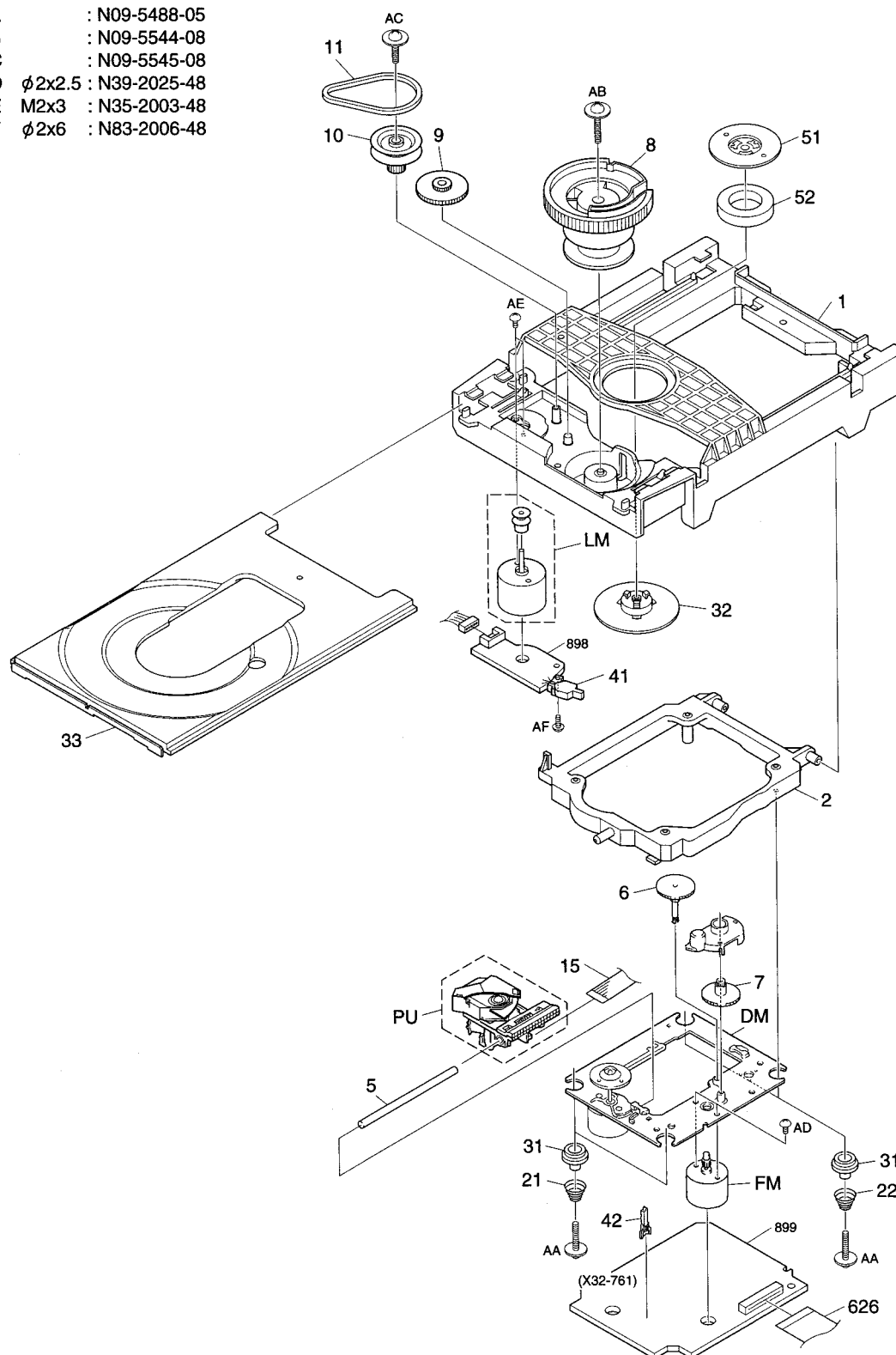
RD-K501USB



RD-K501USB

EXPLODED VIEW (MECHANISM)

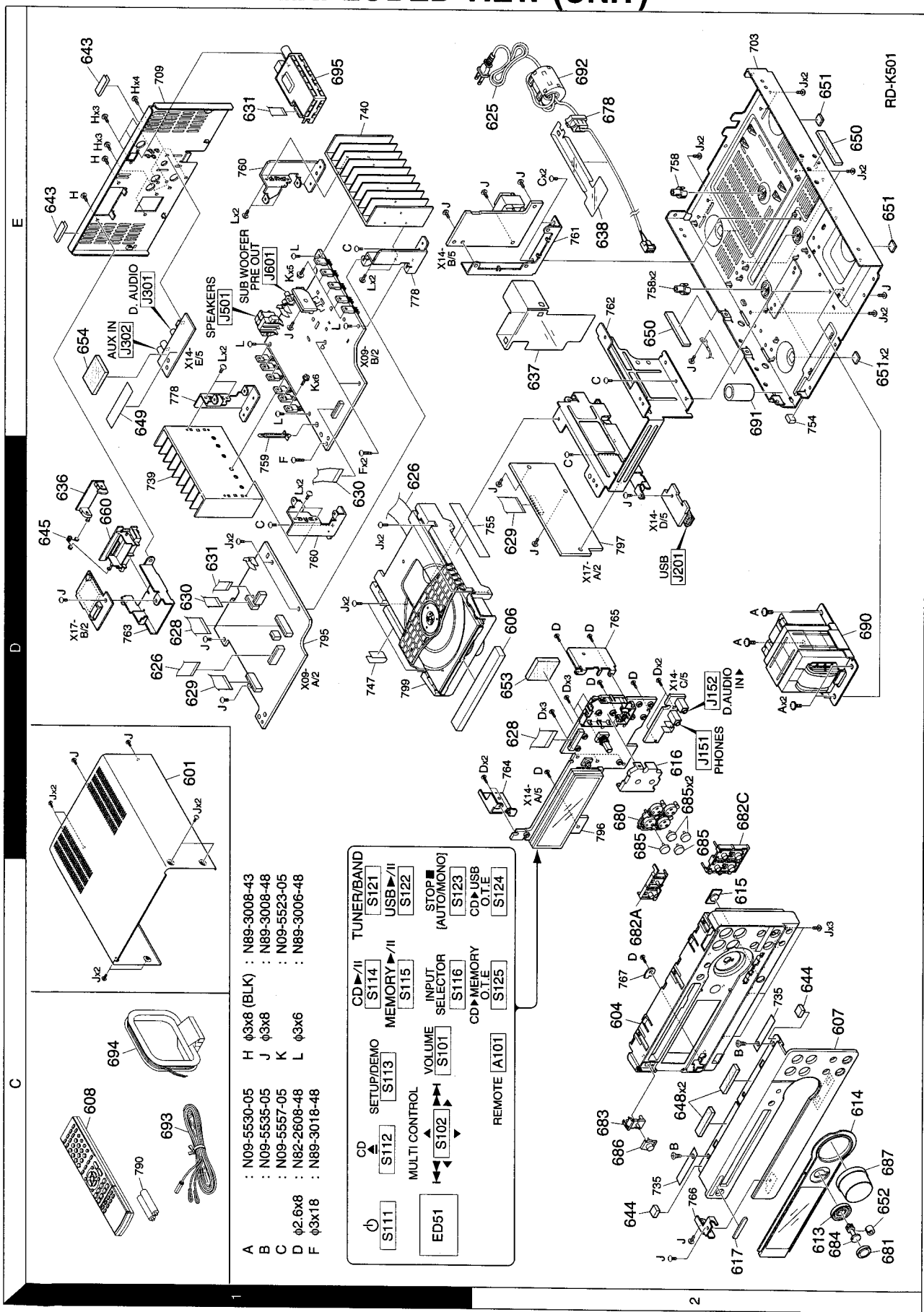
AA	:	N09-5488-05
AB	:	N09-5544-08
AC	:	N09-5545-08
AD	$\phi 2 \times 2.5$: N39-2025-48
AE	M2x3	: N35-2003-48
AF	$\phi 2 \times 6$: N83-2006-48



Parts with exploded numbers larger than 700 are not supplied.

RD-K501USB

EXPLODED VIEW (UNIT)



RD-K501USB

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D			N82-2608-48	BINDING HEAD TAPITE SCREW		
F			N89-3018-48	BINDING HEAD TAPITE SCREW		
J			N89-3008-48	BINDING HEAD TAPITE SCREW		
L			N89-3008-48	BINDING HEAD TAPITE SCREW		
693	1C		T90-0877-05	LEAD WIRE ANTENNA		
694	1C		T90-0893-05	LOOP ANTENNA		
695	1E	*	W02-4644-05	TUNER ASSY		
AUDIO (X09-7022-71)						
C1			CK73GB1H103K	CHIP C		
C2			CK73GB1H104K	CHIP C		
C4			CD04BU1C331M	ELECTRO		
C15			CK73GB1H102K	CHIP C		
C16, 17			CK73GCH1H220J	CHIP C		
C18			CK73GB1H103K	CHIP C		
C19			CK73GB1H102K	CHIP C		
C20			CK73GB1H103K	CHIP C		
C91			CD04BU1H2R2M	ELECTRO		
C92			CD04BU1H0R1M	ELECTRO		
C93, 94			CD04BU1A101M	ELECTRO		
C95			C90-5639-05	BACKUP C		
C100			CK73GCH1H471J	CHIP C		
C101, 102			CD04BU1H100M	ELECTRO		
C103, 104			CK73GB1A105K	CHIP C		
C105, 106			CK73FBOJ475K	CHIP C		
C109, 110			CK73GB1A105K	CHIP C		
C117, 118			CK73GCH1H681J	CHIP C		
C119, 120			CK73FBOJ475K	CHIP C		
C121, 122			CD04BU1H100M	ELECTRO		
C123, 124			CK73GB1H104K	CHIP C		
C125, 126			CK73GB1C224K	CHIP C		
C127, 128			CK73GB1E154K	CHIP C		
C128, 132			CK73GB1H104K	CHIP C		
C133, 134			CK73GB1H222K	CHIP C		
C135, 136			CK73GB1A105K	CHIP C		
C137, 138			CK73GCH1H100D	CHIP C		
C139, 140			CK73GCH1H101J	CHIP C		
C141			CD04BU1A101M	ELECTRO		
C142, 143			CK73GCH1H471J	CHIP C		
C144			CD04BU1A101M	ELECTRO		
C145			CD04BU1A221M	ELECTRO		
C146			CK73GCH1H070D	CHIP C		
C149			CK73GB1H102K	CHIP C		
C153			CD04AU1H010M	NP-ELEC		
C154			CD04AU1H220M	NP-ELEC		
C351, 352			CK73GB1H104K	CHIP C		
C355			CK73GB1H104K	CHIP C		
C356			CD04BU1H100M	ELECTRO		
C498, 497			CK73GB1H104K	CHIP C		
C501, 502			CK73GCH1H050C	CHIP C		
C503, 504			CK73GCH1H471J	CHIP C		
C505, 506			CD04BU1H2R2M	ELECTRO		
C507, 508			CK73GCH1H221J	CHIP C		
C509, 510			CK73GB1H102K	CHIP C		

L: Scandinavia
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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
RD-K501USB						
601	1D	*	A01-3965-01	METALLIC CABINET		
604	2C	*	A22-1923-11	SUB PANEL		
606	2D	*	A29-1262-03	PANEL,CD-SS8-8		
607	2C	*	A60-2480-01	PANEL		
608	1C	*	A70-1715-05	REMOTE CONTROL ASSY,RC-F0508E		
-		*	B60-5655-00	INSTRUCTION MANUAL,501-ENG		
-		*	B60-5656-00	INSTRUCTION MANUAL,501-FRE		
-		*	B60-5657-00	INSTRUCTION MANUAL,501-GER		
-		*	B60-5658-00	INSTRUCTION MANUAL,501-ORA		
-		*	B60-5659-00	INSTRUCTION MANUAL,501-ITA		
613	2C	*	B60-5668-00	INSTRUCTION MANUAL,501-SPA		
614	2C	*	B07-2737-04	ESCUTCHEON,10J		
615	2C	*	B10-5606-02	FRONT GLASS		
616	2D	*	B12-1403-04	INDICATOR R/C		
617	2C	*	B19-1679-03	LENS,4KEY-LENS		
617	2C	*	B43-0338-04	KENWOOD BADGE		
625	2E	*	E30-7330-05+	AC POWER CORD,AS ROUND PLU		
626	2E	*	E30-7368-05	AC POWER CORD,EN 2.5A		
628	1D,2D	*	E35-3912-05	FLAT CABLE,C0D-X09		
629	1D,2D	*	E35-3914-15	FLAT CABLE,X09-X14		
630	1D	*	E35-3915-05	FLAT CABLE,X09-X17		
631	1D,1E	*	E35-3916-05	FLAT CABLE,X09-X09		
636	1D	*	E35-3911-05	FLAT CABLE,TUNER-X09		
637	2E	*	F19-1148-03	COVER,SD		
638	2E	*	F20-3632-03	INSULATING BOARD,X14		
643	1E	*	F20-3633-13	INSULATING BOARD,AC		
644	2C	*	G10-1435-04	NON-WOVEN FABRIC(30X10MM)		
645	1D	*	G11-2991-04	CUSHION,AUX		
648	2C	*	G01-4381-14	TORSION COIL SPRING,SD		
649	1E	*	G01-0155-14	SOFT TAPE (40X9X2)		
650	2E	*	G11-2974-04	CUSHION		
651	2E	*	G11-2979-14	CUSHION		
652	2C	*	G11-2386-04	CUSHION,10J		
653	2C	*	G11-2388-04	CUSHION,10J		
654	1E	*	G11-2389-04	CUSHION,DISPLAY		
660	1D	*	J61-0307-05	WIRE BAND		
678	2E	*	J42-0349-05	HOLDER,SD		
680	2D	*	K29-8515-02	POWER CORD BUSHING		
681	2C,2D	*	K29-8516-04	KNOB,4KEY-CLEA		
682	2C	*	K29-8517-12	KNOB,10J-KEYT		
683	2C	*	K29-8518-04	KNOB,SILVER-AL		
684	2C	*	K29-8519-03	KNOB,POWER-BAS		
685	2D	*	K29-8520-04	KNOB,10J-JIKU		
686	2C	*	K29-8521-03	KEY TOP,4KEY-KEYT		
687	2C	*	K29-8522-04	KEY TOP,POWER-KEY		
690	2D	*	K29-8554-03	KNOB,VOL		
691	2D	*	L07-3345-05	POWER TRANSFORMER		
692	2E	*	L92-0855-05	POWER TRANSFORMER		
693	2E	*	L92-0855-05	FERRITE CORE		
694	2E	*	L92-0579-05	FERRITE CORE		

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RD-K501USB

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C735			CC73GCH1H220J	CHIP C		
C736			CC73GCH1H100D	CHIP C		
C737			CC73GCH1H220J	CHIP C		
C740			CK73GB1H104K	CHIP C		
C741,742			CD04BU1H100M	ELECTRO		
C751-754			CK73GB1H104K	CHIP C		
C755			CC73GCH1H220J	CHIP C		
C756			CK73GB1H104K	CHIP C		
C757			CC73GCH1H220J	CHIP C		
CN2		*	E41-1832-05	FLAT CABLE CONNECTOR,1MM,7P,		
CN12		*	E41-1425-05	FLAT CABLE CONNECTOR,1.25MM,		
CN14		*	E41-1848-05	FLAT CABLE CONNECTOR,1MM,23P,		
CN16		*	E41-1852-05	FLAT CABLE CONNECTOR,1MM,27P,		
CN18		*	E41-1848-05	FLAT CABLE CONNECTOR,1MM,23P,		
CN19		*	E41-1840-05	FLAT CABLE CONNECTOR,1MM,15P,		
CN501		*	E70-1027-05	LOCK TERMINAL BOARD,4P RED/BLK		
J601		*	E63-1146-15	PIN JACK,1P,BLK		
L11-13			L92-0810-05	CHIP FERRITE		
L14			L92-0017-05	FERRITE CORE		
L15,16			L92-0810-05	CHIP FERRITE		
X11			L77-2173-15	CRYSTAL RESONATOR(32.768KHZ)		
X12			L78-0754-05	RESONATOR (10MHZ)		
R1			RK73GB2A105J	CHIP R		
R2			RK73GB2A221J	CHIP R		
R3,4			RK73GB2A392J	CHIP R		
R6			RK73GB2A472J	CHIP R		
R7			RK73GB2A104J	CHIP R		
R11-14			RK73GB2A101J	CHIP R		
R16			RK73GB2A472J	CHIP R		
R18			RK73GB2A472J	CHIP R		
R19			RK73GB2A104J	CHIP R		
R20			RK73GB2A475J	CHIP R		
R21			RK73GB2A104J	CHIP R		
R22			RK73GB2A102J	CHIP R		
R23			RK73GB2A820J	CHIP R		
R26			RK73GB2A104J	CHIP R		
R27-29			RK73GB2A101J	CHIP R		
R32-34			RK73GB2A101J	CHIP R		
R36,37			RK73GB2A470J	CHIP R		
R38			RK73GB2A104J	CHIP R		
R41			RK73GB2A473J	CHIP R		
R45			RK73GB2A101J	CHIP R		
R47			RK73GB2A473J	CHIP R		
R48			RK73GB2A101J	CHIP R		
R49,50			RK73GB2A102J	CHIP R		
R51			RK73GB2A392J	CHIP R		
R52			RK73GB2A101J	CHIP R		
R53			RK73GB2A102J	CHIP R		
R54			RK73GB2A332J	CHIP R		
R55			RK73GB2A101J	CHIP R		
R56			RK73GB2A332J	CHIP R		
R57,58			RK73GB2A101J	CHIP R		
R61			RK73GB2A473J	CHIP R		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C511,512			CK73GB1H222K	CHIP C		
C513,514			CC73GCH1H150J	CHIP C		
C515,516			CD04BU1E470M	ELECTRO		
C517,518			CC73GCH1H101J	CHIP C		
C519,520			CC73GCH1H050C	CHIP C		
C521,522			CK73GB1H102K	CHIP C		
C523,524			CC73GCH1H390J	CHIP C		
C525,526			CC73GCH1H820J	CHIP C		
C529,530			CC73GCH1H100D	CHIP C		
C531,532			CK73GB1H103K	CHIP C		
C533,534			CD04BU1A101M	ELECTRO		
C535,536			CK73GB1H472K	CHIP C		
C537,540			C91-1577-05	MP-C		
C541,542			CK73GB1H103K	CHIP C		
C543			CD04BU1H010M	ELECTRO		
C544			CD04BU1E470M	ELECTRO		
C545			CD04BU1E101M	ELECTRO		
C546			CD04BU1E470M	ELECTRO		
C547,548			CC73GCH1H100D	CHIP C		
C549			CK73GB1H222K	CHIP C		
C550			CC73GCH1H100D	CHIP C		
C551			CD04BU1H470M	ELECTRO		
C552			CD04BU1E101M	ELECTRO		
C553,554			CK73GB1H103K	CHIP C		
C555			CC73GCH1H100D	CHIP C		
C556			CK73GB1H222K	CHIP C		
C601			CK73GB1H102K	CHIP C		
C604			CK73GB1H103K	CHIP C		
C605			CD04BU1H010M	ELECTRO		
C606,607			CD04AU1H220M	NP-ELEC		
C700			CK73GB1H104K	CHIP C		
C701			CD04BU1J471M1	ELECTRO		
C702,703			CQ93FMG1H104J	MYLAR		
C704			CD04BU2A100M	ELECTRO		
C705,706			C90-5813-05	ELECTRO		
C707			CD04BU1E222M1	ELECTRO		
C708			CD04BU1E102M1	ELECTRO		
C709			CD04BU1E332M1	ELECTRO		
C710			CQ93FMG1H104J	MYLAR		
C711			CD04BU1J470M	ELECTRO		
C712			CD04BU1E101M	ELECTRO		
C713			CQ93FMG1H104J	MYLAR		
C714			CD04BU1E101M	ELECTRO		
C715-719			CQ93FMG1H104J	MYLAR		
C720			CD04BU1E101M	ELECTRO		
C721			CD04BU1E470M	ELECTRO		
C722,723			CQ93FMG1H104J	MYLAR		
C724			CD04BU1E101M	ELECTRO		
C725			CQ93FMG1H104J	MYLAR		
C726-728			CK45FF1H103Z	CERAMIC		
C729			CK73GB1H104K	CHIP C		
C730,731			C91-1567-05	FILM		
C732			CK45FF1H103Z	CERAMIC		
C733			CD04BU1C472M1	ELECTRO		
C734			CD04BU1E101M	ELECTRO		

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PARTS LIST

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation
R416			RK73GB2A222J	CHIP R	1/10W
R452			RK73EB2E000J	CHIP R	1/4W
R454,455			RK73EB2E000J	CHIP R	0.0
R471,472			RK73GB2A000J	CHIP R	1/10W
R474-477			RK73GB2A000J	CHIP R	1/10W
R479			RK73GB2A000J	CHIP R	0.0
R481,482			RK73GB2A000J	CHIP R	1/10W
R484-486			RK73GB2A000J	CHIP R	1/10W
R487			RK73GB2A752J	CHIP R	7.5K
R489-492			RK73GB2A000J	CHIP R	0.0
R495-497			RK73GB2A000J	CHIP R	0.0
R501,502			RK73GB2A131J	CHIP R	130
R503,504			RK73GB2A473J	CHIP R	47K
R505,506			RK73GB2A102J	CHIP R	1.0K
R507,508			RK73GB2A161J	CHIP R	160
R513,514			RK73GB2A101J	CHIP R	100
R516			RK73GB2A621J	CHIP R	620
R517,518			RK73GB2A101J	CHIP R	100
R519,520			RK73GB2A683J	CHIP R	68K
R521,522			RK73GB2A123J	CHIP R	12K
R523,524			RK73GB2A222J	CHIP R	2.2K
R525,526			RK73GB2A151J	CHIP R	150
R527,528			RK73GB2A222J	CHIP R	2.2K
R529,530			RK73GB2A471J	CHIP R	470
R531,532			RK73GB2A472J	CHIP R	4.7K
R533,534			RK73GB2A101J	CHIP R	100
R537,538			RK73GB2A271J	CHIP R	270
R539,540			RK73GB2A102J	CHIP R	1.0K
R541,542			RK73GB2A271J	CHIP R	270
R543,544			RK73GB2A132J	CHIP R	1.3K
R545,546			RK73GB2A562J	CHIP R	5.6K
R547-550			RK73GB2A100J	CHIP R	10
R551-554			RS14KB3D3R33J	FL-PROOF RS	0.33
R555,556			RK73GB2A242J	CHIP R	2.4K
R557,558			RK73GB2A102J	CHIP R	1.0K
R561,562			RS14KB3A4RTJ	FL-PROOF RS	4.7
R563,564			RK73GB2A472J	CHIP R	4.7K
R565			RS14KB3D100J	FL-PROOF RS	10
R566			RD14NB2E4R7J	RD	4.7K
R567,568			RD14NB2E100J	RD	10
R569			RK73GB2A103J	CHIP R	10K
R570,571			RK73GB2A473J	CHIP R	47K
R572			RD14NB2E4R7J	RD	4.7
R573			RD14NB2E100J	RD	10
R574			RK73GB2A103J	CHIP R	10K
R575			RK73GB2A822J	CHIP R	8.2K
R576			RK73GB2A100J	CHIP R	10
R578			RK73GB2A472J	CHIP R	4.7
R579			RK73GB2A100J	CHIP R	10
R581,582			RK73GB2A683J	CHIP R	68K
R583			RK73GB2A100J	CHIP R	10
R601,602			RS14KB3D391J	FL-PROOF RS	390
R603,604			RK73GB2A473J	CHIP R	47K
R605			RK73GB2A472J	CHIP R	4.7K
R615,616			RK73GB2A622J	CHIP R	6.2K
R618			RK73GB2A101J	CHIP R	100
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Ref. No	Add-ress	New Parts	Parts No.	Description	Re-marks
D713			S5688B(TPB5)Q	DIODE	
D714			DAP202U	DIODE	
D715			S5688B(TPB5)Q	DIODE	
D717			DAN202U	DIODE	
D718			DAP202U	DIODE	
D728			1SS355	DIODE	
IC11	*		M30626FHP1BHA	MICROCONTROLLER IC	
IC91	*		XC61CN4002MRN	ANALOGUE IC	
IC101			M61510AFDPF0G	ANALOGUE IC	
IC102			CD4052BPWR	MOS-IC	
IC201			BA4560RF	ANALOGUE IC	
IC352			SN74LVC08APWR	MOS-IC	
IC353			TA8409SG(J)	MOS-IC	
IC354			XC6219B332MRN	MOS-IC	
IC701			BA05T	ANALOGUE IC	
IC702			KIA278R05PLP	ANALOGUE IC	
IC703			KIA7809PLP	ANALOGUE IC	
IC704			KIA7809PLP	ANALOGUE IC	
IC705	*		NJM2366F63	ANALOGUE IC	
IC706			KIA7805APL-P	ANALOGUE IC	
Q91			2SC4081(R,S)	TRANSISTOR	
Q101			2SC4081(R,S)	TRANSISTOR	
Q102			2SA1576A(R,S)	TRANSISTOR	
Q103			2SK879-FY,GR	FET	
Q104			KTC3199-PIY,G	TRANSISTOR	
Q151,152			2SA1576A(R,S)	TRANSISTOR	
Q201,202			2SC4081(R,S)	TRANSISTOR	
Q401			DTC123JUA	DIGITAL TRANSISTOR	
Q402-404			UMG11N	TRANSISTOR	
Q501,502			DTC643TU	DIGITAL TRANSISTOR	
Q505-508			UMT2N	DUAL TRANSISTOR	
Q509,510			IMX9	DUAL TRANSISTOR	
Q511,512			IMT4	DUAL TRANSISTOR	
Q513,514			2SD2396(J,K)	TRANSISTOR	
Q515,516			2SD2420AP1KW	TRANSISTOR	
Q517,518			2SB1623AP1KW	TRANSISTOR	
Q519-522			2SC4081(R,S)	TRANSISTOR	
Q523			2SA1576A(R,S)	TRANSISTOR	
Q524			DTC113ZUA	DIGITAL TRANSISTOR	
Q525			2SA954-A(L,K)	TRANSISTOR	
Q601			DTC113ZUA	DIGITAL TRANSISTOR	
Q605			DTC643TU	DIGITAL TRANSISTOR	
Q607,608			2SA1576A(R,S)	TRANSISTOR	
Q701			2SC2003-AL(K)	TRANSISTOR	
TH502			NCP18WB473J0S	THERMISTOR	
DISPLAY (X14-8032-71)					
D101,102			B30-2686-05	LED(BLUE,5MM,NSPB51)	
D103			B30-2697-05	LED(RED/AMBER LED)	
C11,12		*	C91-1643-05	MF-C	J
C13			CD04BJ1C332M1	ELECTRO	6800PF
C14			CK73GB1H104K	CHIP C	3300UF
C15			CK73GB1H683K	CHIP C	0.10UF
C16			CD04BJ1H100M	ELECTRO	0.068UF
C17			CC73GC1H220J	CHIP C	10UF
					22PF
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Ref. No	Add-ress	New Parts	Parts No.	Description	Re-marks
R619			RK73GB2A681J	CHIP R	1/10W
R625			RK73GB2A201J	CHIP R	J
R626			RK73GB2A102J	CHIP R	1/10W
R627			RK73GB2A183J	CHIP R	1/10W
R628			RK73GB2A113J	CHIP R	1/10W
R629			RK73GB2A102J	CHIP R	1/10W
R630			RK73GB2A183J	CHIP R	1/10W
R631			RK73GB2A102J	CHIP R	1/10W
R632			RK73GB2A113J	CHIP R	1/10W
R633			RK73GB2A102J	CHIP R	1/10W
R701			RD14NB2E1R0J	RD	1/4W
R702			RD14NB2E472J	RD	J
R703			RK73GB2A101J	CHIP R	1/4W
R704,705			RK73GB2A000J	CHIP R	1/10W
R708-710			RK73GB2A223J	CHIP R	1/10W
R716,717			RK73GB2A103J	CHIP R	1/10W
R718			RK73GB2A182J	CHIP R	1/10W
R719			RK73GB2A103J	CHIP R	1/10W
R720			RK73GB2A471J	CHIP R	1/10W
R721			RD14NB2E180J	RD	1/4W
R722			RS14KB3D121J	FL-PROOF RS	2W
R723			RK73GB2A151J	CHIP R	1/10W
R724			RK73GB2A100J	CHIP R	1/10W
R725			RK73GB2A151J	CHIP R	1/10W
R728			RK73GB2A621J	CHIP R	1/10W
R731,732			RK73GB2A000J	CHIP R	0.0
R801-804			RK73GB2A000J	CHIP R	0.0
R806-813			RK73GB2A000J	CHIP R	0.0
VR501,502	*		R32-0151-05	SEMI FIXED VARIABLE RESISTOR	
K501			S76-0098-05	MAGNETIC RELAY	
K601			S76-0098-05	MAGNETIC RELAY	
D91			1SS402-F	DIODE	
D92			1SS355	DIODE	
D93			1SS133	DIODE	
D102			UDZ52.7B	ZENER DIODE	
D141,142			UDZ53.9B	ZENER DIODE	
D151			UDZ52.7B	ZENER DIODE	
D501			UDZ58.2B	ZENER DIODE	
D502			UDZS10B	ZENER DIODE	
D505			DAP202U	DIODE	
D506			1SS133	DIODE	
D507			1SS355	DIODE	
D508			UDZ54.7B	ZENER DIODE	
D602			UDZ53.9B	ZENER DIODE	
D603,604			1SS355	DIODE	
D701			S5688B(TPB5)Q	DIODE	
D702			TS6P03G-B	DIODE	
D703			S5688B(TPB5)Q	DIODE	
D704			TS4B03G-B1	DIODE	
D705-708			S5688B(TPB5)Q	DIODE	
D709			TS4B03G-B1	DIODE	
D710			UDZS16B	ZENER DIODE	
D711			UDZS18B	ZENER DIODE	
D712			1SS355	DIODE	
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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C185			CK73GB1H104K	CHIP C		
C192			CK73GB1H102K	CHIP C		
C200,201			CE32BJ1C100M	CHIP EL		
C202-206			CK73GB1H104K	CHIP C		
C207,208			CK73GCH1H220J	CHIP C		
C209			CK73GB1H332K	CHIP C		
C210			CK73GB1H104K	CHIP C		
C211			CE32BM1C221M	CHIP EL		
C212,213			CK73GB1H104K	CHIP C		
C214			CK73GCH1H470J	CHIP C		
C300-308			CK73GB1H104K	CHIP C		
C309			CE32BJ1C100M	CHIP EL		
C310-315			CK73GB1H104K	CHIP C		
C400			CE32BJ1C101M	CHIP EL		
C401			CK73GCH1H100D	CHIP C		
C402,403			CK73GB1A105K	CHIP C		
C404			CK73GCH1H100D	CHIP C		
C405			CE32BJ1C101M	CHIP EL		
C406			CE32BCJ101M	CHIP EL		
C407			CK73GB1A105K	CHIP C		
C408			CK73GCH1H100D	CHIP C		
C409			CE32BCJ101M	CHIP EL		
C500-503			CK73GCH1H270J	CHIP C		
C901			CK73GCH1H471J	CHIP C		
C904			CK73GB1H102K	CHIP C		
C907			CK73GB1H102K	CHIP C		
C909			CK73GB1H102K	CHIP C		
C910			CK73GB1H104K	CHIP C		
CN5			E41-1311-05	FLAT CABLE CONNECTOR		
J500			E68-0025-05	JACK(OTHERS),SD CARD SLOT		
L1			L92-0574-05	FERRITE CORE,300OHM,100MHZ		
L200			L79-1308-05	LINE FILTER		
L400,401			L92-0574-05	FERRITE CORE,300OHM,100MHZ		
X200			L77-2464-05	CRYSTAL RESONATOR(12.0MHZ)		
CP1-3			RK74GB1J220J	CHIP-COM		
CP5-10			RK74GB1J220J	CHIP-COM		
CP20-23			RK74GB1J220J	CHIP-COM		
CP24,25			RK74GB1J472J	CHIP-COM		
CP30-33			RK74GB1J103J	CHIP-COM		
CP34-40			RK74GB1J220J	CHIP-COM		
R2			RK73GB2A000J	CHIP R		
R3			RK73GB2A472J	CHIP R		
R5			RK73GB2A472J	CHIP R		
R6 ,7			RK73GB2A220J	CHIP R		
R9			RK73GB2A472J	CHIP R		
R10			RK73GB2A000J	CHIP R		
R13			RK73GB2A472J	CHIP R		
R14			RK73GB2A000J	CHIP R		
R17			RK73GB2A472J	CHIP R		
R18			RK73GB2A332J	CHIP R		
R19			RK73GB2A220J	CHIP R		
R20			RK73GB2A330J	CHIP R		
R21 ,22			RK73GB2A000J	CHIP R		

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D401			MTZ10(B)	ZENER DIODE		
ED51			16-ST-91GINK	FLUORESCENT INDICATOR TUBE		
IC111			XC62HR5102PN	ANALOGUE IC		
IC401			BA4560RF	ANALOGUE IC		
Q11			DTG113ZSA	DIGITAL TRANSISTOR		
Q12			KTA1267-P(Y,G	TRANSISTOR		
Q51-53			2SC4081(R,S)	TRANSISTOR		
Q101			2SC4081(R,S)	TRANSISTOR		
Q102			UMH5N	TRANSISTOR		
Q103			UMT2N	DUAL TRANSISTOR		
Q301,302			DTG643TU	DIGITAL TRANSISTOR		
A101			W02-4648-05	ELECTRIC CIRCUIT MODULE		
MEMORY AUDIO (X17-1170-00)						
C1			CE32BJ1C100M	CHIP EL		
C2-10			CK73GB1H104K	CHIP C		
C11 ,12			CE32BJ1C100M	CHIP EL		
C13-23			CK73GB1H104K	CHIP C		
C24			CK73GB1H103K	CHIP C		
C25-35			CK73GB1H104K	CHIP C		
C36			CE32BJ1C100M	CHIP EL		
C37-42			CK73GB1H104K	CHIP C		
C43 ,44			CE32BJ1C100M	CHIP EL		
C45-60			CK73GB1H104K	CHIP C		
C61			CE32BJ1C100M	CHIP EL		
C62			CK73GB1H103K	CHIP C		
C100			CE32BJ1C101M	CHIP EL		
C101 ,102			CK73GCH1H100D	CHIP C		
C103			CE32BJ1C101M	CHIP EL		
C104			CK73GCH1H050C	CHIP C		
C105			CE32BJ1C101M	CHIP EL		
C106			CK73FB1C105K	CHIP C		
C121,122			CE32BJ1H3R3M	CHIP EL		
C123,124			CK73GCH1H151J	CHIP C		
C125,126			CK73GCH1H181J	CHIP C		
C127,128			CK73GB1H102K	CHIP C		
C129,130			CK73GCH1H102J	CHIP C		
C131,132			CE32BJ1H3R3M	CHIP EL		
C133,134			CK73GCH1H100D	CHIP C		
C135,136			CK73GCH1H331J	CHIP C		
C140			CK73GB1H104K	CHIP C		
C141,142			CK73GCH1H100D	CHIP C		
C143			CE32BJ1C100M	CHIP EL		
C144			CK73GB1H104K	CHIP C		
C145,146			CE32BJ1H010M	CHIP EL		
C147			CE32BJ1C100M	CHIP EL		
C148			CE32BJ1C101M	CHIP EL		
C149			CE32BJ1C470M	CHIP EL		
C161,162			CE32BJ1H3R3M	CHIP EL		
C163,164			CK73GCH1H151J	CHIP C		
C165,166			CK73GCH1H881J	CHIP C		
C167,168			CK73GB1H102K	CHIP C		
C169,170			CK73GCH1H102J	CHIP C		
C171,172			CE32BJ1H3R3M	CHIP EL		

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12						
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R195,196			RK73GB2A102J	CHIP R	1/10W	
R197			RK73GB2A100J	CHIP R	1/10W	
R199,200			RK73GB2A223J	CHIP R	1/10W	
R201			RK73GB2A105J	CHIP R	1/10W	
R202			RK73GB2A103J	CHIP R	1/10W	
R203			RK73GB2A000J	CHIP R	1/10W	
R204			RK73GB2A104J	CHIP R	1/10W	
R206			RK73GB2A000J	CHIP R	1/10W	
R207			RK73GB2A102J	CHIP R	1/10W	
R300-303			RK73GB2A103J	CHIP R	1/10W	
R304			RK73GB2A100J	CHIP R	1/10W	
R400			RK73GB2A101J	CHIP R	1/10W	
R401			RK73GB2A223J	CHIP R	1/10W	
R402			RK73GH2A273D	CHIP R	1/10W	
R403			RK73GH2A123D	CHIP R	1/10W	
R404			RK73GB2A101J	CHIP R	1/10W	
R405			RK73GB2A1R0J	CHIP R	1/10W	
R406			RK73GB2A472J	CHIP R	1/10W	
R407			RK73GB2A103J	CHIP R	1/10W	
R408			RK73GH2A272D	CHIP R	1/10W	
R409			RK73GH2A103D	CHIP R	1/10W	
R410			RK73GB2A103J	CHIP R	1/10W	
R411			RK73GB2A000J	CHIP R	1/10W	
R412			RK73GB2A101J	CHIP R	1/10W	
R413			RK73GH2A153D	CHIP R	1/10W	
R414			RK73GH2A103D	CHIP R	1/10W	
R415			RK73GB2A000J	CHIP R	1/10W	
R500-505			RK73GB2A103J	CHIP R	1/10W	
R506,507			RK73GB2A473J	CHIP R	1/10W	
R901			RK73GB2A121J	CHIP R	1/10W	
R904			RK73GB2A000J	CHIP R	1/10W	
R907			RK73GB2A000J	CHIP R	1/10W	
R911,912			RK73GB2A100J	CHIP R	1/10W	
S500		*	S68-0157-05	PUSH SWITCH		
D100			UDZS4.7B	ZENER DIODE		
D101			UDZS2.4B	ZENER DIODE		
D140			UDZS3.9B	ZENER DIODE		
D200,201		*	1SS396-F	DIODE		
D202,203			UDZS2.7B	ZENER DIODE		
D400		*	CMG02-Q	DIODE		
D901-903		*	1SS302-F	DIODE		
IC1		*	D610A003BPYP	MOS-IC		
IC14		*	PCM1754DB	MOS-IC		
IC15		*	AK4555VT	MOS-IC		
IC16,17			BA4560RF	ANALOGUE IC		
IC18			TC7WH04FK-F	MOS-IC		
IC20		*	S1R72005F00A3	MOS-IC		
IC21		*	MIC2005-05YM6	MOS-IC		
IC30		*	A29L160A1BIA	ROM IC		
IC31		*	EM484M1644V6	DRAM IC		
IC32-34		*	SN74LV244APWR	MOS-IC		
IC35,36		*	SN74LV245APWR	MOS-IC		
IC37		*	TC7SH08FU-F	MOS-IC		
IC40,41		*	SI-3010KM	ANALOGUE IC		
Δ						
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13						
Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R23-25			RK73GB2A220J	CHIP R	1/10W	
R26			RK73GB2A101J	CHIP R	1/10W	
R28			RK73GB2A172J	CHIP R	1/10W	
R29			RK73GB2A223J	CHIP R	1/10W	
R30			RK73GB2A103J	CHIP R	1/10W	
R31-33			RK73GB2A330J	CHIP R	1/10W	
R34			RK73GB2A101J	CHIP R	1/10W	
R36			RK73GB2A151J	CHIP R	1/10W	
R37			RK73GB2A101J	CHIP R	1/10W	
R38,39			RK73GB2A151J	CHIP R	1/10W	
R40-43			RK73GB2A101J	CHIP R	1/10W	
R44			RK73GB2A103J	CHIP R	1/10W	
R45			RK73GB2A223J	CHIP R	1/10W	
R46			RK73GB2A182J	CHIP R	1/10W	
R47-49			RK73GB2A330J	CHIP R	1/10W	
R50			RK73GB2A101J	CHIP R	1/10W	
R100-102			RK73GB2A151J	CHIP R	1/10W	
R103,104			RK73GB2A331J	CHIP R	1/10W	
R105			RK73GB2A102J	CHIP R	1/10W	
R106			RK73GB2A100J	CHIP R	1/10W	
R107			RK73GB2A151J	CHIP R	1/10W	
R108			RK73GB2A223J	CHIP R	1/10W	
R109			RK73GB2A100J	CHIP R	1/10W	
R110			RK73GB2A71J	CHIP R	1/10W	
R111			RK73GB2A104J	CHIP R	1/10W	
R112			RK73GB2A2R2J	CHIP R	1/10W	
R119,120			RK73GB2A223J	CHIP R	1/10W	
R121,122			RK73GB2A104J	CHIP R	1/10W	
R123,124			RK73GB2A752J	CHIP R	1/10W	
R125,126			RK73GB2A103J	CHIP R	1/10W	
R127,128			RK73GB2A203J	CHIP R	1/10W	
R129,130			RK73GB2A103J	CHIP R	1/10W	
R131,132			RK73GB2A101J	CHIP R	1/10W	
R133,134			RK73GB2A2R2J	CHIP R	1/10W	
R137,138			RK73GB2A331J	CHIP R	1/10W	
R140			RK73GB2A182J	CHIP R	1/10W	
R141-145			RK73GB2A101J	CHIP R	1/10W	
R146			RK73GB2A332J	CHIP R	1/10W	
R147			RK73GB2A103J	CHIP R	1/10W	
R148			RK73GB2A2R2J	CHIP R	1/10W	
R149			RK73GB2A1R0J	CHIP R	1/10W	
R150			RK73GB2A100J	CHIP R	1/10W	
R151			RK73GB2A101J	CHIP R	1/10W	
R152			RK73GB2A102J	CHIP R	1/10W	
R159,160			RK73GB2A332J	CHIP R	1/10W	
R161,162			RK73GB2A104J	CHIP R	1/10W	
R163,164			RK73GB2A752J	CHIP R	1/10W	
R165,166			RK73GB2A103J	CHIP R	1/10W	
R171,172			RK73GB2A101J	CHIP R	1/10W	
R173,174			RK73GB2A2R2J	CHIP R	1/10W	
R184			RK73GB2A103J	CHIP R	1/10W	
R185			RK73GB2A151J	CHIP R	1/10W	
R188			RK73GB2A101J	CHIP R	1/10W	
R191			RK73GB2A101J	CHIP R	1/10W	
R192-194			RK73GB2A181J	CHIP R	1/10W	
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RD-K501USB

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
CN1			E41-1304-05	FLAT CABLE CONNECTOR,16P		
CN2			E41-1311-05	FLAT CABLE CONNECTOR,23P		
L1			L41-1001-28	SMALL FIXED INDUCTOR(10UH,K)		
X1			L77-2412-05	CRYSTAL RESONATOR(16.9344MHZ)		
R1 -4			RK73GB2A750J	CHIP R	J	1/10W
R5			RK73GB2A122J	CHIP R	J	1/10W
R6			RK73GB2A272J	CHIP R	J	1/10W
R7			RK73GB2A473J	CHIP R	J	1/10W
R8			RK73GB2A47J	CHIP R	J	1/10W
R9			RK73GB2A821J	CHIP R	J	1/10W
R10 ,11			RK73GB2A362J	CHIP R	J	1/10W
R12			RK73GB2A471J	CHIP R	J	1/10W
R13			RK73GB2A474J	CHIP R	J	1/10W
R14			RK73GB2A334J	CHIP R	J	1/10W
R15			RK73GB2A104J	CHIP R	J	1/10W
R16			RK73GB2A333J	CHIP R	J	1/10W
R17			RK73GB2A473J	CHIP R	J	1/10W
R18			RK73GB2A392J	CHIP R	J	1/10W
R19			RK73GB2A623J	CHIP R	J	1/10W
R22			RK73GB2A333J	CHIP R	J	1/10W
R23			RK73GB2A292J	CHIP R	J	1/10W
R24			RK73GB2A474J	CHIP R	J	1/10W
R28			RK73GB2A753J	CHIP R	J	1/10W
R29			RK73GB2A43J	CHIP R	J	1/10W
R30			RK73GB2A24J	CHIP R	J	1/10W
R31			RK73GB2A333J	CHIP R	J	1/10W
R32			RK73GB2A472J	CHIP R	J	1/10W
R33			RK73GB2A124J	CHIP R	J	1/10W
R34 ,35			RK73GB2A333J	CHIP R	J	1/10W
R36			RK73GB2A362J	CHIP R	J	1/10W
R37			RK73GB2A334J	CHIP R	J	1/10W
R38			RK73GB2A472J	CHIP R	J	1/10W
R39			RK73GB2A292J	CHIP R	J	1/10W
R40			RK73GB2A152J	CHIP R	J	1/10W
R41			RK73GB2A224J	CHIP R	J	1/10W
R43			RK73GB2A823J	CHIP R	J	1/10W
R44			RK73GB2A563J	CHIP R	J	1/10W
R45			RK73GB2A124J	CHIP R	J	1/10W
R46			RK73GB2A563J	CHIP R	J	1/10W
R47			RK73GB2A331J	CHIP R	J	1/10W
R48			RK73GB2A221J	CHIP R	J	1/10W
R49			RK73GB2A101J	CHIP R	J	1/10W
R50			RK73GB2A100J	CHIP R	J	1/10W
R51			RK73GB2A220J	CHIP R	J	1/10W
R52			RK73GB2A103J	CHIP R	J	1/10W
R54			RK73GB2A750J	CHIP R	J	1/10W
R55			RK73GB2A223J	CHIP R	J	1/10W
R56 ,57			RK73GB2A101J	CHIP R	J	1/10W
R60 -63			RK73GB2A103J	CHIP R	J	1/10W
R64 -66			RK73GB2A1R0J	CHIP R	J	1/10W
R67			RK73GB2A472J	CHIP R	J	1/10W
R73 -76			RK73GB2A752J	CHIP R	J	1/10W
R77 ,78			RK73GB2A163J	CHIP R	J	1/10W
R79 -90			RK73GB2A750J	CHIP R	J	1/10W

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
IC42			SI-3010KD	ANALOGUE IC		
Q1 ,2			25K3018	FET		
Q100,101			25C4081(R,S)	TRANSISTOR		
Q102			25K879-F(Y,GR)	FET		
Q103			DTA124EUA	DIGITAL TRANSISTOR		
Q140			DTC124EUA	DIGITAL TRANSISTOR		
Q400			25C4081(R,S)	TRANSISTOR		
Q401			25C4081(R,S)	TRANSISTOR		
CD CONTROL (X32-7610-01)						
C1			CE32BUJ470M	CHIP EL	47UF	6.3WV
C2			CK73GCH1H20C	CHIP C	2.0PF	C
C3			CK73GB1H104K	CHIP C	0.10UF	K
C4			CK73GCH1H060D	CHIP C	6.0PF	D
C5			CK73GCH1H680J	CHIP C	68PF	J
C6			CK73GCH1H150J	CHIP C	15PF	J
C7			CK73GB1H104K	CHIP C	0.10UF	K
C8 ,9			CK73GB1H562K	CHIP C	5600PF	K
C10			CK73GCH1H391J	CHIP C	390PF	J
C11			CK73GB1H473K	CHIP C	0.047UF	K
C12 ,13			CK73GB1H104K	CHIP C	0.10UF	K
C14			CK73GCH1H21J	CHIP C	220PF	J
C15			CK73GCH1H331J	CHIP C	330PF	J
C16			CK73GB1H102K	CHIP C	1000PF	K
C19			CE32BUJ470M	CHIP EL	47UF	6.3WV
C20			CK73GB1H102K	CHIP C	1000PF	K
C21			CE32BM1C221M	CHIP EL	220UF	16WV
C22			CK73GB1H682K	CHIP C	6800PF	K
C26			CK73GB1H682K	CHIP C	6800PF	K
C28			CK73GB1H392K	CHIP C	3900PF	K
C29			CK73GB1H102K	CHIP C	1000PF	K
C30			CK73GB1H223K	CHIP C	0.022UF	K
C31			CK73GB1H104K	CHIP C	0.10UF	K
C32			CK73GB1A334K	CHIP C	0.33UF	K
C33			CK73GB1H102K	CHIP C	1000PF	K
C34			CE32BUJ470M	CHIP EL	47UF	6.3WV
C35			CK73GB1H104K	CHIP C	0.10UF	K
C36			CK73GB1H102K	CHIP C	1000PF	K
C37 ,38			CK73GCH1H090D	CHIP C	9.0PF	D
C39			CK73GB1H104K	CHIP C	0.10UF	K
C40			CE32BUJ470M	CHIP EL	47UF	6.3WV
C41			CK73GB1H223K	CHIP C	0.022UF	K
C50			CK73GB1H103K	CHIP C	0.010UF	K
C51			CK73GB1H222K	CHIP C	2200PF	K
C52			CK73GB1H102K	CHIP C	1000PF	K
C53			CK73GB1H103K	CHIP C	0.010UF	K
C54			CE32BM1C221M	CHIP EL	220UF	16WV
C55			CE32BUJ470M	CHIP EL	47UF	6.3WV
C56			CK73GB1H103K	CHIP C	0.010UF	K
C57 ,58			CK73GB1H102K	CHIP C	1000PF	K
C59 ,60			CK73GCH1H391J	CHIP C	390PF	J
C61 ,62			CK73GCH1H101J	CHIP C	100PF	J
C63 ,64			CK73GB1H102K	CHIP C	1000PF	K
C65			CE32BUJ470M	CHIP EL	47UF	6.3WV
C66			CK73GB1A105K	CHIP C	1.0UF	K

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CD MECHANISM (X92-2470-21)

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RD-K501USB

SPECIFICATIONS

Main unit (RD-K501USB)

[Amplifier block]

Effective output power during STEREO operation (1 kHz,
10%, T.H.D., at 6 Ω) 20 W + 20 W (RMS)
Total harmonic distortion 0.025%
(1 kHz, 10 W, 6 Ω , 30 kHz LPF)
D-BASS (+10) +9.0 dB (60Hz, Vol. 30)
Input (Sensitivity/impedance)
LINE (AUX)..... 350 mV / 22 k Ω (Max INPUT LEVEL)
LINE (D. AUDIO)..... 350 mV / 10 k Ω (Max INPUT LEVEL)
Output (Level/Impedance)
PRE OUT (D. AUDIO) 900 mV/10 k Ω (HIGH)
..... 550 mV/10 k Ω (LOW)
SUB WOOFER PREOUT 1.6 V/10 k Ω

[USB block]

Usable USB device USB Mass storage class
Interface USB 2.0 (Full speed) USB 1.1 compatible
File format FAT 12/16/32
Recording format
WMA SQ 128 kbps/44.1 kHz STEREO
HQ 192 kbps/44.1 kHz STEREO
Playing format
MP3 Sampling frequency 8~48 kHz
Bit rate (CBR/VBR *) 32~320 kbps
WMA (WMA9 compliant, DRM non-correspondence)
Sampling frequency 8~48 kHz
Bit rate (CBR/VBR *) 64~384 kbps
ID3 tag Non-correspondence
Maximum numbers of folders 200
Maximum folder hierarchical number 10
Maximum numbers of files 1000
Maximum current drain 500 mA

[Memory card block]

Usable memory card SD memory card, miniSD™ card
Usable memory card capacity 32 MB~2GB
File system FAT 12/16/32
Recording format
WMA SQ 128 kbps/44.1 kHz STEREO
HQ 192 kbps/44.1 kHz STEREO
Playing format
MP3 Sampling frequency 8~48 kHz
Bit rate (CBR/VBR *) 32~320 kbps
WMA (WMA9 compliant, DRM non-correspondence)
Sampling frequency 8~48 kHz
Bit rate (CBR/VBR *) 64~384 kbps
ID3 tag Non-correspondence
Maximum numbers of folders 200
Maximum folder hierarchical number 10
Maximum numbers of files 1000

* The audio data of VBR may become beyond the limits
of the bit rate the above-mentioned, and may not be
playable on this system.

[CD player block]

Laser Semiconductor laser
D/A converter 1 bit
Oversampling 8 fs (352.8 kHz)
Frequency response 20 Hz~20 kHz
Wow & flutter Below measurable limit

[Tuner block]

FM tuner
Tuning frequency range 87.5 MHz~108 MHz
AM tuner
Tuning frequency range 531 kHz~1,602 kHz

[Power supply and other blocks]

Power consumption 73 W
Standby power consumption 0.4 W or less
Dimensions Width 240 mm (9-7/16")
Height 121.5 mm (4-13/16")
Depth 361 mm (14-3/16")
Weight (net) 5.3 kg(11.7 lb)

Speakers (LS-K501)

Enclosure Bass-Reflex system
Speaker unit configuration
Woofer 100 mm cone type
Tweeter 25 mm balanced dome type
Impedance 6 Ω
Power handling capacity 20 W
Dimensions Width 140 mm (5-1/2")
Height 260 mm (10-1/4")
Depth 209 mm (8-1/4")
Weight (net) 2.2 kg (4.9 lb) (1 pcs)

- Design and specifications are subject to change without notice.
- Full performance is not guaranteed in extremely cold environments (under water-freezing temperatures).

